



# STIC EIC 2100 Search Request Form

101285

Today's Date:

8/15/03

What date would you like to us to limit the search?

Priority Date:

1/5/01

Other:

Name Chongshan Chen

AU 2172 Examiner # 79547

Room # 4B25 Phone 305-8319

Serial # 09/755,782

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

☒ USP ☐ DWPI ☐ EPO ☐ JPO ☐ ACM ☐ IBM TDB  
☐ IEEE ☐ INSPEC ☐ SPI Other \_\_\_\_\_

Is this a "Fast & Focused" Search Request? (Circle One) ☒ YES ☐ NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

In an electronic device having a database of records of different categories, a method of display information comprising the step of:

obtain a first sort field for said first category type, said table associating each category of said different categories with its own sort field.

STIC Searcher Geo. Fray ST Leger Phone 308-7800

Date picked up 8/15/03 Date Completed 8/15/03



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# STIC Search Results Feedback Form

**EIC 2100**

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Anne Hendrickson, EIC 2100 Team Leader  
308-7831, CPK2-4B40

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 3730

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2100 CPK2-4B40





# STIC Search Report

## EIC 2100

STIC Database Tracking Number: 101285

TO: Chongshan Chen  
Location: 4A25  
Art Unit : 2172  
Friday, August 15, 2003

Case Serial Number: 09/755782

From: Geoffrey St. Leger  
Location: EIC 2100  
PK2-4B30  
Phone: 308-7800

[geoffrey.stleger@uspto.gov](mailto:geoffrey.stleger@uspto.gov)

### Search Notes

Dear Examiner Chen,

Attached please find the results of your Fast & Focused search request for application 09/755782. I searched Dialog's foreign patent files, product announcement files and general files; along with the Internet.

Please let me know if you have any questions.

Regards,



Geoffrey St. Leger  
4B30/308-7800



File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)

(c) 2003 JPO & JAPIO

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200352

(c) 2003 Thomson Derwent

Set	Items	Description
S1	768094	DATABASE? ? OR DATA()BASE? ? OR TABLE? ? OR REPOSITOR??? OR RECORD? ?
S2	53444	S1(5N)(PEOPLE OR PERSON? ? OR CONTACT? ? OR ASSOCIATE? OR - FRIEND? OR INDIVIDUAL? ? OR EMPLOYEE? OR MEMBER? ? OR ENTITY - OR ENTITIES OR STUDENT? OR USER? ? OR CUSTOMER? ? OR CONSUMER? ? OR PARTNER? ? OR ADDRESS?? OR NAME? ?)
S3	2636861	CATEGORY OR CATEGORIES OR CLASS OR CLASSES OR GROUP???? OR CLASSIFICATION? ? OR THEME? ? OR SET? ? OR CLUSTER? OR COLLECTION? ?
S4	5879	S3(10N)SORT???
S5	938	SORT???(5N)(FIELD? ? OR KEY? ? OR MENU? ? OR BUTTON? ?)
S6	390	S3(5N)SORT???(5N)(SEPARAT??? OR DIFFERENT? OR DISTINCT??? - OR OWN OR ITSELF)
S7	409	S3(5N)(ASSOCIAT? OR CORRESPOND? OR CORRELAT? OR RELAT??? OR APPLICABLE OR MATCH??? OR MAP????) (5N)SORT???
S8	484	S1 AND S4 AND IC=G06F
S9	142	S8 AND S5:S7
S10	19	S2 AND S9
S11	123	S9 NOT S10
S12	54	S11 AND SORT??*/TI
S13	69	S11 NOT S12
S14	0	S2 AND S13
S15	7	S13 AND CATEGOR?
S16	62	S13 NOT S15
S17	348	(CATEGORY OR CATEGORIES) (10N)SORT???
S18	71	S1 AND S17
S19	49	S18 AND IC=G06F
S20	38	S19 NOT S9

10/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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03606719 \*\*Image available\*\*

**SORT PROCESSING SYSTEM USING KANJI FIELD AS SORT KEY**

PUB. NO.: 03-269619 [JP 3269619 A]  
PUBLISHED: December 02, 1991 (19911202)  
INVENTOR(s): UEDA YOICHI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 02-070133 [JP 9070133]  
FILED: March 19, 1990 (19900319)  
INTL CLASS: [5] G06F-007/24  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 1319, Vol. 16, No. 85, Pg. 101,  
February 28, 1992 (19920228)

#### ABSTRACT

PURPOSE: To improve the sort processing efficiency and also to reduce the memory capacity by storing a sort KANJI (Chinese character) order **table** used for sort processing into a system common virtual storage as the shared software and having accesses in common among plural processes.

CONSTITUTION: The number N of KANJI **fields** designated as sort **keys** is obtained from a **sort** parameter **table** 2. Then '1' is **set** to a control variable I so that the position L, the number S of characters, and the KANJI order element T of the I-th KANJI field are obtained from the **table** 2. At the same time, an identification name X of a sort KANJI order **table** stored in a common software virtual storage area 4 corresponding to the element T is obtained from a sort KANJI order control **table** 7. Then '0' is **set** to a control variable J, and a code C of the (L+J)-th KANJI counted from the tip of a **record** is obtained. Furthermore the collating order value N of the code C is obtained by reference to the sort KANJI **table** of the **name** X and adds the value N to the **record**. The comparison is carried out between J and S. If J is larger than S, '1' is added to the value of I. Then I is compared with N. If I is larger than N, the processing is through. Thus the sort efficiency is improved.

10/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

03361717 \*\*Image available\*\*  
DATA PROCESSING SYSTEM

PUB. NO.: 03-024617 [JP 3024617 A]  
PUBLISHED: February 01, 1991 (19910201)  
INVENTOR(s): HAYASHI TSUTOMU  
YANAGIMOTO KATSUMI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
NEC SOFTWARE LTD [491061] (A Japanese Company or Corporation)  
, JP (Japan)  
APPL. NO.: 01-156647 [JP 89156647]  
FILED: June 21, 1989 (19890621)  
INTL CLASS: [5] G06F-007/24 ; G06F-012/00  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 1191, Vol. 15, No. 153, Pg. 124,  
April 17, 1991 (19910417)

#### ABSTRACT

PURPOSE: To reduce the memory using capacity of sort processing by providing the data processing system with a sorting means, a sorting work

storing means and a merging means.

CONSTITUTION: The **sorting** means divides a **record group** having key items and **relative** work address items and only key values and relative **address** values from respective **records** are stored and rearranged in a **sorting table**. The **sorting** work storing means successively stores the **records** of work files indicated by the **relative address** values in the **sorting table** in a **sorting** work file. The merging means **sets** up the **records** of the minimum key values in of respective **groups** the **sorting** work file in each merging **table**, compares records in the **table** and outputs the minimum key **record** to a work file. Since the head **records** of respective **groups** of the **sorting** work file formed by dividing a file to be **sorted** and rearranging only the **key** values and relative address values are merged, memory capacity to be processed can be sharply reduced.

10/5/7 (Item 7 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

02532828 \*\*Image available\*\*  
INDEX FORMING DEVICE

PUB. NO.: 63-149728 [JP 63149728 A]  
PUBLISHED: June 22, 1988 (19880622)  
INVENTOR(s): IDESHITA TADAYOSHI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 61-298023 [JP 86298023]  
FILED: December 15, 1986 (19861215)  
INTL CLASS: [4] G06F-007/28 ; G06F-007/24  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 780, Vol. 12, No. 413, Pg. 55,  
November 02, 1988 (19881102)

#### ABSTRACT

PURPOSE: To collectively form plural indexes only by one access by forming index **records** corresponding to the number of indexes to be formed for one data **record** and adding identification numbers corresponding to respective indexes to respective index **records**.

CONSTITUTION: An index **record** forming means 1a reads out plural data **records** stored in a storing means 1d successively and forms index **records** each of which includes a field corresponding to an index to be formed, a **record address** and the identification number of the index to be formed by the number of indexes to be formed in each data **record**. An index **record** sorting means 1b sorts the formed index **records** by defining the identification numbers of the indexes as a 1st **sort keys** and the **fields** corresponding to the indexes in the index **records** having the same identification number as a 2nd **sort keys**. An index constituting means 1c forms **corresponding** indexes while monitoring the indexes ID arrayed in a **sorted index record group**. Consequently, index **records** relating to the **different** kinds of indexes can be processed only by one **sort** processing.

10/5/8 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

02462248 \*\*Image available\*\*  
SYSTEM FOR DECIDING SET OCCURRENCE STORING ORDER OF MULTI-HIERARCHICAL  
DATA BASE

PUB. NO.: 63-079148 [JP 63079148 A]  
PUBLISHED: April 09, 1988 (19880409)

INVENTOR(s): TOMIYAMA TAKUJI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 61-225387 [JP 86225387]  
FILED: September 22, 1986 (19860922)  
INTL CLASS: [4] G06F-012/00 ; G06F-007/24 ; G06F-012/00  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.1  
(INFORMATION PROCESSING -- Arithmetic Sequence Units)  
JOURNAL: Section: P, Section No. 748, Vol. 12, No. 309, Pg. 99, August  
23, 1988 (19880823)

#### ABSTRACT

PURPOSE: To produce a **data base** corresponding to designation by using a set key to decide well-definedly a pair of an owner **record** and a **member record**.

CONSTITUTION: This device consists of a **data base** DB generating file 1, a **set** information **sorting** means 2 which **sorts** the owner and **member records** stored in each **record** of the file 1 via a **set** key that secures **correspondence** between both **records**, a **sort** work file 3 which stores the **sorted** results, a storing order deciding means 4 which has the input of the file 3 and decides the relationship between the set owner and **member records**, a multi-hierarchical set information producing means 5 which produces the **record** having the set relationship between the owner and **member records** covering many hierarchies when the storing order is not decided yet by the means 4, and a storing order file 6 which stores results.

10/5/11 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

01952524 \*\*Image available\*\*  
SORTING SYSTEM FOR LOGGING RECORD

PUB. NO.: 61-166624 [JP 61166624 A]  
PUBLISHED: July 28, 1986 (19860728)  
INVENTOR(s): YONEMOTO HISASHI  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 60-006839 [JP 856839]  
FILED: January 18, 1985 (19850118)  
INTL CLASS: [4] G06F-007/24  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 527, Vol. 10, No. 374, Pg. 21,  
December 12, 1986 (19861212)

#### ABSTRACT

PURPOSE: To increase the sorting speed of logging **records** by processing in adverse time series the logging **records** stored in time series and setting a point chain between **records** in time series and according to the value of each key.

CONSTITUTION: .A main memory device MSU2 connected to a CPU1 of a sorting system for logging **records** contains a memory area including a reading area 21, a **key** control **table** 22 and a **sorting** file storage **record address** pointer 23. The adverse reading orders are set in the area 21 in a descending way in terms of the generating time of logging **records** sent from a logging file of a file memory PM4 of the system. The key value 220 of the **table** 22 is scanned in accordance with the key value of the **record** read out. Then the value 220 is retrieved and a key value head **record address** 221 is added to the pointer 23 and stored in a sorting file 53 of a file memory 5. Then a point chain is **set** between records in response to each **key** value. Thus the **sorting** speed is increased for logging **records**.

10/5/13 (Item 2 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

013972935 \*\*Image available\*\*  
WPI Acc No: 2001-457148/200149  
XRPX Acc No: N01-338836

Displaying records responsive to database query for searching  
databases , sorting and delivering records to users by displaying  
selected elements of at least one of responsive records

Patent Assignee: ROSENTHAL P J (ROSE-I); WALTERS E J (WALT-I)

Inventor: ROSENTHAL P J; WALTERS E J

Number of Countries: 094 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200135274	A1	20010517	WO 2000US30786	A	20001109	200149 B
AU 200115914	A	20010606	AU 200115914	A	20001109	200152

Priority Applications (No Type Date): US 2000707911 A 20001108; US 99164549  
P 19991110; US 2000707910 A 20001108

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200135274 A1 E 52 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA  
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP  
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT  
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200115914 A G06F-017/30 Based on patent WO 200135274

Abstract (Basic): WO 200135274 A1

NOVELTY - A list of identifiers and selected elements of at least  
one of the responsive records are displayed for a number of the  
responsive records . The list of identifiers and the selected elements  
are displayed simultaneously. The selected elements comprise the  
entirety of one of the responsive records or case citations. Records  
displayed in their entirety are identified and marked in a prior  
search request.

DETAILED DESCRIPTION - .

INDEPENDENT CLAIMS are included for:

(a) an apparatus for displaying records responsive to database  
query

(b) a method of sorting a first set of records

(c) a method of identifying additions to a list of records

USE - In the field of searching databases , sorting and  
displaying results, and delivering records to users .

ADVANTAGE - More efficiently displaying, representing, sorting, and  
navigating such responsive records . Reduces the need to access the  
full text of records in order to determine whether the record is  
relevant to the user 's research. Allows users to sort the list of  
such records , and by showing users which records they have  
already reviewed. Lists responsive records in a side panel while the  
user reviews the full text of any responsive record , allowing the  
user to jump forward or back a number of records at a time by  
allowing users to re-sort the list of responsive records in the  
side pane.

DESCRIPTION OF DRAWING(S) - The drawing illustrates a flow diagram  
for a query in one embodiment of the present invention.

pp; 52 DwgNo 4/11

Title Terms: DISPLAY; RECORD ; RESPOND; DATABASE ; QUERY; SEARCH; SORT;  
DELIVER; RECORD ; USER; DISPLAY; SELECT; ELEMENT; ONE; RESPOND; RECORD

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/00

File Segment: EPI



10/5/15 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013156306 \*\*Image available\*\*  
WPI Acc No: 2000-328178/200028  
XRPX Acc No: N00-247016

**Interactive data processing method for online financial system, involves maintaining access to database with complete service to all accounts during service request by providing valuations and sorted lists**

Patent Assignee: POWER FINANCIAL GROUP INC (POWE-N)

Inventor: SEGAL G A; ZERENNER E H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6049783	A	20000411	US 9755403	A	19970808	200028 B
			US 9886738	A	19980529	

Priority Applications (No Type Date): US 9755403 P 19970808; US 9886738 A 19980529

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6049783	A		6	G06F-017/60	Provisional application US 9755403

Abstract (Basic): US 6049783 A

NOVELTY - Client establishes filtering and **sorting** on interactive server in **separate** account, to **set** and modify parameters for each account. Timely access to source of data is provided to retrieve valuations, client information, graph or other report, thus maintaining access to **database** for complete service during request to all accounts.

DETAILED DESCRIPTION - Data is processed from browser compatible page. The client criteria are selected from open interest, percent if called, percent if not called, in money or out of money, optional month, search criteria, stock price, volume, volatility or Black-Scholes value, etc. Valuations may tend to be for months or long term leap options.

USE - For accessing online financial data within server to meet user criteria in business and financial system used for automated renewal accounts system using digital computer for updating security information of multiple accounts.

ADVANTAGE - Individual investor could make use of speed of computer is same way as investment professionals, as investment data is presented to individuals in a read only format with content being generic in nature. Thus **individual** investor can directly interact with **database** in order to extract information according to individual needs. Hence individual criteria is input and changed to explore different scenarios.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of multitask account on server.

pp; 6 DwgNo 2/2

Title Terms: INTERACT; DATA; PROCESS; METHOD; FINANCIAL; SYSTEM; MAINTAIN; ACCESS; **DATABASE** ; COMPLETE; SERVICE; ACCOUNT; SERVICE; REQUEST; SORT; LIST

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

10/5/17 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011042839 \*\*Image available\*\*  
WPI Acc No: 1997-020763/199702  
XRPX Acc No: N97-017299

**Index integrity checking method for DB2 database - involves creating**

**special SORT record for each data record and each data entry and collating records to group SORT records for each record and associated index entries**

Patent Assignee: BMC SOFTWARE INC (BMCS-N)  
Inventor: HINTZ T E; TENBERG K C  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5579515	A	19961126	US 93168962	A	19931216	199702 B

Priority Applications (No Type Date): US 93168962 A 19931216

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5579515	A		12	G06F-007/00	

Abstract (Basic): US 5579515 A

The method involves reading, in parallel, a series of DB2 data records from a DB2 table space (120), and a series of DB2 index entries from DB2 indexes (100) associated with the DB2 table space. Each index entry is normally associated with a DB2 data record. A SORT record (300) is constructed for each of the data records and each index entry.

The SORT records are collated for the data records and the SORT records for the index entries onto a single sequence of SORT records to group together the SORT records for each data record with the one or more index entries associated with the respective date record. A specified diagnosis routine (125) is performed which uses a single sequence of SORT records as an input.

USE/ADVANTAGE - Maintains database integrity.

Dwg.3/7

Title Terms: INDEX; INTEGRITY; CHECK; METHOD; DATABASE ; SPECIAL; SORT; RECORD ; DATA; RECORD ; DATA; ENTER; COLLATE; RECORD ; GROUP; SORT; RECORD ; RECORD ; ASSOCIATE; INDEX; ENTER

Derwent Class: T01

International Patent Class (Main): G06F-007/00

International Patent Class (Additional): G06F-009/00

File Segment: EPI

10/5/18 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009535018 \*\*Image available\*\*

WPI Acc No: 1993-228558/199329

XRPX Acc No: N93-175418

**Data processing system for sorting set of keys associated with records in computer files - has logic for partitioning keys into subsets and sorting each subset in predefined sequence**

Patent Assignee: INT BUSINESS MACHINES CORP (IBM )

Inventor: COHN O; GAL S; HOLLANDER Y; SHEINWALD D

Number of Countries: 004 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 551691	A1	19930721	EP 92300324	A	19920115	199329 B
US 5490269	A	19960206	US 933929	A	19930113	199612

Priority Applications (No Type Date): EP 92300324 A 19920115

Cited Patents: 1.Jnl.Ref; US 913007; WO 9003609

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 551691	A1	E	6	G06F-007/24	

Designated States (Regional): DE FR GB

US 5490269	A		5	G06F-007/08	
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Abstract (Basic): EP 551691 A

The system sorts a set of keys each associated with a corresponding record by partitioning the keys into subsets and

**sorting** each subset of **keys** in a predefined sequence. The subset partitioning collects together keys having a distinct codeword relative to a selected one of the set of keys.

The selected key is selected by randomly sampling the keys to determine a typical key and selecting that key. If a typical key cannot be identified a conventional most significant byte sorting method is used. The method is applied recursively to fully **sort** a **set** of **keys** .

**ADVANTAGE** - The system speeds up the process of **sorting keys** and therefore results in more efficient use of computer time.

Dwg.1/2

Title Terms: DATA; PROCESS; SYSTEM; SORT; SET; KEY; ASSOCIATE; **RECORD** ;  
COMPUTER; FILE; LOGIC; PARTITION; KEY; SUBSET; SORT; SUBSET; PREDEFINED;  
SEQUENCE

Derwent Class: T01

International Patent Class (Main): **G06F-007/08** ; **G06F-007/24**

International Patent Class (Additional): **G06F-007/10** ; **G06F-007/22**

File Segment: EPI

12/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06425198 \*\*Image available\*\*

METHOD AND SYSTEM FOR SORT PROCESSING RECORD MEDIUM RECORDING SORT  
PROCESSING PROGRAM

PUB. NO.: 2000-010760 [JP 2000010760 A]  
PUBLISHED: January 14, 2000 (20000114)  
INVENTOR(s): SANO YASUKO  
APPLICANT(s): NEC CORP  
APPL. NO.: 10-175726 [JP 98175726]  
FILED: June 23, 1998 (19980623)  
INTL CLASS: G06F-007/24

#### ABSTRACT

PROBLEM TO BE SOLVED: To improve the data hit rate and to increase the sort processing speed.

SOLUTION: A record dividing means 10 which divides a record into a sort key and the other part, a main storage device 5 provided with first areas for storage of sort keys and second areas for storage of the other parts, a sort main processing means 1 which sorts first areas at each time of fullness of second areas or at the time of the end of input of all records and reads records from a work file 4 into second areas in order from the first record of each intermediate sort result and merges the sort key group in first areas to determine the sort result at the time of output of the sort result, and a code link means 9 which takes out data in second areas in the sort order correspondingly to sort keys in first areas to write these data in the work file 4 as the intermediate sort result and combines winner sort keys of the merge result and corresponding data of the other parts to output them to an output file 3 as the sort result are provided.

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12/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06330847 \*\*Image available\*\*

SORT PROCESSING METHOD

PUB. NO.: 11-272448 [JP 11272448 A]  
PUBLISHED: October 08, 1999 (19991008)  
INVENTOR(s): KITAMURA EIJI  
APPLICANT(s): NEC CORP  
APPL. NO.: 10-076221 [JP 9876221]  
FILED: March 24, 1998 (19980324)  
INTL CLASS: G06F-007/24

#### ABSTRACT

PROBLEM TO BE SOLVED: To attain the sort processing of a lot of data in a short time by reducing the number of string input and output times with an auxiliary storage device.

SOLUTION: A presort means 11 sorts an input record from an input file 21, stores a string being an intermediate result in a work file 22, and stores the key value of the leading record of each string in a string management table 31. A string selecting means 13 defines strings for the number of merge weigh in the order of the high sort priority order of the key value of the leading record as an object to be merged, and sets the key value whose sort priority order is the highest as a record output threshold value. A string merge means 12 operates the merge of the object to be merged, and outputs it, and when the key value of the merged record is beyond a record output threshold value, the string merge means 12

stores its as a new string in the work file 22.

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12/5/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06226019 \*\*Image available\*\*  
INFORMATION **SORTING** METHOD, DEVICE AND SYSTEM

PUB. NO.: 11-167581 [JP 11167581 A]  
PUBLISHED: June 22, 1999 (19990622)  
INVENTOR(s): HARA MASAMI  
KITANI TSUYOSHI  
APPLICANT(s): NTT DATA CORP  
APPL. NO.: 09-334309 [JP 97334309]  
FILED: December 04, 1997 (19971204)  
INTL CLASS: **G06F-017/30 ; G06F-007/24**

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide an information sorting device which can sort the texts with high accuracy.

SOLUTION: An information sorting device 1 includes a text input part 11, a word processing part 12, a vector processing part 13, a learning feature vector set file 14, a similarity processing part 15, a category decision part 16 and an external or internal document **data base** 17. The part 12 calculates the importance of category of every word that is extracted from a learning text based on both number of appearance and category frequencies of the word. The part 15 calculates the similarity of words based on the learning feature vector, the learning feature vector **set** and the **sorting** object text feature vector which are calculated based on the importance of words calculated at the part 12. The part 16 decides a prescribed number of **corresponding categories** as the **categories** of the **sorting** object texts based on the similarity having the largest calculation value. Then the **sorting** object texts **sorted** in each **category** are stored in the "**data base** 17.

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12/5/9 (Item 9 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

05051261 \*\*Image available\*\*  
**SORTING** PROCESSOR AND **SORTING** PROCESSING METHOD

PUB. NO.: 08-006761 [JP 8006761 A]  
PUBLISHED: January 12, 1996 (19960112)  
INVENTOR(s): OBATA NORIO  
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 06-138983 [JP 94138983]  
FILED: June 21, 1994 (19940621)  
INTL CLASS: [6] **G06F-007/24**  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)

#### ABSTRACT

PURPOSE: To provide the sorting processor and sorting processing method which can efficiently sort variable-length **records** .

CONSTITUTION: An input file 10 has plural **records** 10a, 10b, 10c, and 10d. A distributing means 1 decodes the **records** in the input file 10, one by one, and distributes the **records** so that an object **record** including a

reference key for sorting is added to the column of a sorted record group 20 and a record including no reference key is added to the column of an unsorted record group 30. A sorting means 2 sorts records 10a and 10c arrayed in the sorted record group 20 by using the key as a judgement reference and outputs the records in the order of sorting. A merging means 3 adds records 10b and 10d arrayed in the unsorted record group 30 to the records outputted from the sorting means 2 and outputs those records to an output file 40. Thus, only the records including the reference key for sorting are regarded as objects of sorting.

12/5/11 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

03914886 \*\*Image available\*\*  
CLASS SORTING DEVICE

PUB. NO.: 04-279986 [JP 4279986 A]  
PUBLISHED: October 06, 1992 (19921006)  
INVENTOR(s): KAWASE NAOTO  
KUMANO SHINTARO  
TAMAGAWA MITSUAKI  
APPLICANT(s): MITSUBISHI HEAVY IND LTD [000620] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-042008 [JP 9142008]  
FILED: March 07, 1991 (19910307)  
INTL CLASS: [5] G06K-009/62; G06F-015/70  
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units); 45.4 (INFORMATION PROCESSING -- Computer Applications)  
JOURNAL: Section: P, Section No. 1487, Vol. 17, No. 76, Pg. 110, February 16, 1993 (19930216)

#### ABSTRACT

PURPOSE: To perform class sorting with a less error and to improve sorting accuracy even when the correlation between classes is high.

CONSTITUTION: This class sorting device by template matching is provided with a first matching quantity calculating part 1 to compute the matching quantity to the template of education data based on the education data and the template, a data distribution model preparing part 2 to develop the matching quantity of the education data to the two-dimensional plane and prepare the distribution model of the data, an identification line defining part 3 to define the identification line to bisect the plane so that the distribution model of two classes can belong to two different areas, a second matching quantity calculating part 5 to compute the matching quantity for the template of the input data based on the input data and template and a class sorting means to classify the input data into two classes by using the identification line based on the matching quantity of the input data.

12/5/12 (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

03231329 \*\*Image available\*\*  
METHOD FOR SORTING RECORD GROUP

PUB. NO.: 02-206829 [JP 2206829 A]  
PUBLISHED: August 16, 1990 (19900816)  
INVENTOR(s): TSURU KAORU  
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 01-026573 [JP 8926573]  
FILED: February 07, 1989 (19890207)  
INTL CLASS: [5] G06F-007/24

JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 1125, Vol. 14, No. 500, Pg. 161,  
October 31, 1990 (19901031)

#### ABSTRACT

PURPOSE: To obtain an objective sort result by conversion-processing the specified part of a **record** in accordance with the type of data, comparing respective data in a prescribed data type by means of a sort designation list so as to attain formation and inversely converting the **record** after formation.

CONSTITUTION: When a **key** 3 which follows the **sort** designation list 30 is **set**, an index order formation file 10 as an intermediate file and the index file are generated, and a result file 11 is generated. Then, one **record** is taken out from an original file 1 while an attribute list 2 is referred to, and a part of data to be sorted is converted and is written into the file 10. When the type of the list 30 is a character one, a conversion processing is not executed. When it is an integer one, a code bit is inverted. When it is not the integer type, it is decided to be a real number type, and the code bit 21 is inverted. When the bit 21 after inversion is '1', conversion is not executed since it is a positive number. When the bit 21 is '0', it is a positive number. When the bit 21 is '0', it is a negative number. Thus, a mantissa part 23 is inverted and the list 30 is terminated.

12/5/14 (Item 14 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

02659729 \*\*Image available\*\*  
**SORTING** SYSTEM FOR **RECORD** IN FILE

PUB. NO.: 63-276629 [JP 63276629 A]  
PUBLISHED: November 14, 1988 (19881114)  
INVENTOR(s): UEDA YOICHI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 62-111939 [JP 87111939]  
FILED: May 08, 1987 (19870508)  
INTL CLASS: [4] **G06F-007/24**  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 839, Vol. 13, No. 96, Pg. 8, March  
07, 1989 (19890307)

#### ABSTRACT

PURPOSE: To eliminate the need of initial processing of a sort, and to shorten the sort processing time by preserving a necessary control data, etc. in a sort fixed information storing file, and reading only a **record** added newly to a sort input file by the sort processing of the second time and thereafter.

CONSTITUTION: When executing a **sort** processing by a **sort** parameter being **different** from the previous **sort** processing, a **sort** utilizing program 1 **sets** a new **sort** parameter to a **sort** parameter **table** 10, designates the **table** 10, and calls a sort processor 9. Also, when the same sort processing as the previous time is executed, the program 1 assigns a sort fixed information storing file 8 generated by the processor 9 instead of the **table** 10 and calls the processor 9. In such a way, at the time of executing sort processing of the second time and thereafter, only a **record** added newly to a sort input file is read and the sort processing is executed and the sort processing time of the second time and thereafter can be shortened.

12/5/15 (Item 15 from file: 347)

DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

02509130      \*\*Image available\*\*  
SORT PROCESSING SYSTEM

PUB. NO.:        63-126030 [JP 63126030 A]  
PUBLISHED:      May 30, 1988 (19880530)  
INVENTOR(s):    SAITOU YUKIHIKO  
APPLICANT(s):   NEC CORP [000423] (A Japanese Company or Corporation), JP  
                  (Japan)  
APPL. NO.:      61-271598 [JP 86271598]  
FILED:          November 14, 1986 (19861114)  
INTL CLASS:     [4] G06F-007/24  
JAPIO CLASS:    45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
                  45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL:        Section: P, Section No. 769, Vol. 12, No. 380, Pg. 96,  
                  October 12, 1988 (19881012)

#### ABSTRACT

PURPOSE: To effectively utilize the resource of a computer system and to shorten the execution time of sort processing by executing the sort processing by one main sort process and plural sub-sort processes.

CONSTITUTION: A sub-sort process forming mans 11 in the main sort process 1 divides data in the leading block number of an input file 4 into block groups 41-43 equal to the number of primary intermediate files 61-63 and forms sub- sort processes 31-33 corresponding to the block groups 41-43. When a replacing information storing means 2 confirms the end of the sort processing of all the formed processes 31-33, a merging means 12 inputs data records from the field 61-63 storing the sorted results of the processes 31-33, executes merge processing and outputs the final sorted result for all the data records in an input file 4 to an output file 5.

12/5/16        (Item 16 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

02468923      \*\*Image available\*\*  
MULTI- KEY SORTER

PUB. NO.:        63-085823 [JP 63085823 A]  
PUBLISHED:      April 16, 1988 (19880416)  
INVENTOR(s):    MATSUDA SUSUMU  
APPLICANT(s):   TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
                  (Japan)  
APPL. NO.:      61-230685 [JP 86230685]  
FILED:          September 29, 1986 (19860929)  
INTL CLASS:     [4] G06F-007/24  
JAPIO CLASS:    45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
                  45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL:        Section: P, Section No. 752, Vol. 12, No. 323, Pg. 36,  
                  September 02, 1988 (19880902)

#### ABSTRACT

PURPOSE: To attain multi- key sorting with a simple hardware constitution by rearranging an input record key array consisting of plural keys in an order corresponding to the key priority of multi- key sorting and sorting the string of rearranged input codes by regarding a rearranged key group as a single key.

CONSTITUTION: The 1st alignment module 12 for rearranging the input record key array consisting of plural keys in the order corresponding to the key priority of multi- key sorting is formed in the prestage of a sort module 11 which sorts an input record sort for a single key and the sort processing of the input record string whose keys are rearranged by the module 12 is executed by the sort module 11 by regarding the



rearranged key group as a single key. Since the single key to be used for the sort processing in the sort module 11 consists of plural keys (K2+K1+K3) arrayed in the order of the key priority for the multi-key sorting, the sort processing based upon the single key is equivalent to multi-key sorting.

12/5/18 (Item 18 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02322332 \*\*Image available\*\*

**SORTING -OUT SYSTEM FOR PLURAL RECORD CLASSES**

PUB. NO.: 62-239232 [JP 62239232 A]  
PUBLISHED: October 20, 1987 (19871020)  
INVENTOR(s): IDESHITA TADAYOSHI  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 61-082731 [JP 8682731]  
FILED: April 09, 1986 (19860409)  
INTL CLASS: [4] G06F-007/24  
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);  
45.2 (INFORMATION PROCESSING -- Memory Units)  
JOURNAL: Section: P, Section No. 686, Vol. 12, No. 107, Pg. 101, April  
07, 1988 (19880407)

**ABSTRACT**

PURPOSE: To shorten the sorting-out time by sorting out record groups at plural record classes with different classification keys in a lump without converting the type of data on keys.

CONSTITUTION: A replacement selection part 2b structures a tournament tree in an internal memory element, compares classification keys in each node of the tree with the aid of a key comparison mechanism 2f, and decides a winner and a loser. A record class comparison means 1a included in the key comparison mechanism compares the record class IDs of two records in the node. If the IDs are different, the smaller record class ID is decided to be a winner and the compared result is returned. When the record IDs are the same, a record class decision means 1b decides record classes, branches them into a record class key comparison means 1c at a corresponding class, and compares classification keys at each class. When the compared result is returned, a winner and a loser in each node can be decided.

12/5/21 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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015493114 \*\*Image available\*\*

WPI Acc No: 2003-555261/200352

XRPX Acc No: N03-440981

**Frequently asked question classifying method for providing helpdesk service, involves sorting dictionary terms in decreasing order of occurrence frequency within cluster**

Patent Assignee: INT BUSINESS MACHINES CORP (IBM )  
Inventor: KREULEN J T; LESSLER J T; SANCHEZ M P; SPANGLER W S  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030050908	A1	20030313	US 2001935473	A	20010822	200352 B

Priority Applications (No Type Date): US 2001935473 A 20010822

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030050908	A1	13	G06F-007/00	

Abstract (Basic): US 20030050908 A1

NOVELTY - A dictionary including subset of words contained in a document set (106), is generated based on occurrence frequency of each word. The document set is partitioned into clusters containing dictionary terms which are sorted in decreasing order of occurrence frequency within the cluster. Terms that correspond to a predetermined level of detail, are selected, from the candidate dictionary terms.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) frequently asked question classifying system; and
- (2) computer program product for classifying frequently asked questions.

USE - For automatically classifying frequently asked questions for use in organization providing helpdesk service.

ADVANTAGE - Enables to save users considerable time and expense, by allowing the user to determine the content of the documents in the cluster, without having to look at all of the documents.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of a networked database system.

document set (106)

pp; 13 DwgNo 1/7

Title Terms: FREQUENT; QUESTION; CLASSIFY; METHOD; SERVICE; SORT;

DICTIONARY; TERM; DECREASE; ORDER; OCCUR; FREQUENCY; CLUSTER

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

12/5/24 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014641665 \*\*Image available\*\*

WPI Acc No: 2002-462369/200249

XRPX Acc No: N02-364536

Sorting reduction method for database query management, involves selecting minimal set of ordering groups based on minimum sorting conditions of window function and accordingly sorting is carried out

Patent Assignee: ORACLE CORP (ORAC-N)

Inventor: GUPTA A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6389410	B1	20020514	US 2000656905	A	20000907	200249 B

Priority Applications (No Type Date): US 2000656905 A 20000907

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6389410	B1		20	G06F-017/30	

Abstract (Basic): US 6389410 B1

NOVELTY - A minimal set of ordering groups representing a subset of a set of window function is selected relevant to a reduced number of sorting needed to satisfy sorting conditions of the window functions. A query result is generated by sorting query associated with minimal set of ordering groups.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for computer readable medium storing sorting instructions.

USE - For database query management in online decision support system.

ADVANTAGE - Minimizes number of sort operations, thereby simplifies management of very large query databases.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating the sorting reduction manufacture.

pp; 20 DwgNo 1/5

Title Terms: SORT; REDUCE; METHOD; DATABASE ; QUERY; MANAGEMENT; SELECT;

MINIMUM; SET; ORDER; GROUP; BASED; MINIMUM; SORT; CONDITION; WINDOW;

FUNCTION; ACCORD; SORT; CARRY

Derwent Class: T01  
International Patent Class (Main): G06F-017/30  
File Segment: EPI

12/5/32 (Item 12 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012019874 \*\*Image available\*\*  
WPI Acc No: 1998-436784/199837  
XRPX Acc No: N98-340325

**Data sorting technique utilisation method for arranging records during software execution - involves selecting and sorting subsets based on acquired data corresponding to type information**

Patent Assignee: IBM CORP (IBMC )  
Inventor: DIETRICH W C; ERVOLINA T R; FASANO J P; TANG J  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5787001	A	19980728	US 95504626	A	19950720	199837 B

Priority Applications (No Type Date): US 95504626 A 19950720

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5787001	A	25	G06F-011/00	

Abstract (Basic): US 5787001 A

The method involves specifying one or more sets of data of predefined type. One or more functions associated with the type for selecting subsets of the data are also specified. For sorting the subsets, one or more criteria associated with the type are specified.

One or more **sets** with one or more selection functions is **associated with corresponding sorting** criteria subsets that are selected based on acquired data, which are sorted corresponding to the type information.

ADVANTAGE - Ensures easier and faster development process. Improves reliability.

Dwg.1/22

Title Terms: DATA; SORT; TECHNIQUE; UTILISE; METHOD; ARRANGE; **RECORD** ;  
SOFTWARE; EXECUTE; SELECT; SORT; SUBSET; BASED; ACQUIRE; DATA; CORRESPOND  
; TYPE; INFORMATION

Derwent Class: T01  
International Patent Class (Main): G06F-011/00  
International Patent Class (Additional): G06F-009/00  
File Segment: EPI

12/5/38 (Item 18 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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011441239 \*\*Image available\*\*  
WPI Acc No: 1997-419146/199739  
XRPX Acc No: N97-349030

**Sorting processor for variable length records stored in computer - has sorting unit to sort records of sorting record group based on specific key**

Patent Assignee: FUJITSU LTD (FUIT )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8006761	A	19960112	JP 94138983	A	19940621	199739 B

Priority Applications (No Type Date): JP 94138983 A 19940621

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8006761	A	6		

Abstract (Basic): JP 8006761 A

The processor has an allocation unit (1) to decode records (10a-10d) of an input file (10) individually. The records which contain a specific key, are added to a sorting record group (20). The records which do not contain the specific key, are added to an unsorting record group (30).

A sorting unit (2) sorts the records of the sorting record group based on the specific key. The sorted records are then output to which an adder (3) adds the records of the unsorting record group. The output of the adder is output from an output file.

ADVANTAGE - Sorts records of varying length quickly and efficiently and with small memory area.

Dwg.1/7

Title Terms: SORT; PROCESSOR; VARIABLE; LENGTH; RECORD ; STORAGE; COMPUTER ; SORT; UNIT; SORT; RECORD ; SORT; RECORD ; GROUP; BASED; SPECIFIC; KEY

Derwent Class: T01

International Patent Class (Main): G06F-007/24

File Segment: EPI

12/5/47 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009316878 \*\*Image available\*\*

WPI Acc No: 1993-010342/199302

IRPX Acc No: N93-007783

Sorting on distributed database system - assigning number of sections into which distribution range of key values of records of database is partitioned to number of second processors

Patent Assignee: HITACHI LTD (HITA )

Inventor: FUJIWARA S; HAMANAKA N; NAGASAKA M; SHINTANI Y; SUZUKI M

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 522488	A2	19930113	EP 92111457	A	19920707	199302 B
EP 522488	A3	19930526	EP 92111457	A	19920707	199403
US 5842207	A	19981124	US 92911617	A	19920710	199903
EP 522488	B1	20020220	EP 92111457	A	19920707	200214
DE 69232425	E	20020328	DE 632425	A	19920707	200229
			EP 92111457	A	19920707	
JP 3395208	B2	20030407	JP 92183453	A	19920710	200324

Priority Applications (No Type Date): JP 91169661 A 19910710

Cited Patents: No-SR.Pub; EP 127753; EP 377993; US 3611316

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 522488	A2	E	28	G06F-007/24	
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Designated States (Regional): DE GB

EP 522488	A3			G06F-007/24	
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US 5842207	A			G06F-017/30	
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EP 522488	B1	E		G06F-007/24	
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Designated States (Regional): DE GB

DE 69232425	E			G06F-007/24	Based on patent EP 522488
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JP 3395208	B2		19	G06F-017/30	Previous Publ. patent JP 5242049
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Abstract (Basic): EP 522488 A

The method involves assigning a number of sections into which the distribution range of key values of records of the database is partitioned to a number of second processors (204) in the first set of processors (203). The key values of the records of the portions of the data base held in the first set of processors (203), and information for representing storage positions of the records are transferred to the second set of processors (204) to which the records belong, are assigned.

The number of key values, which have been received, are sorted in the second set of processors (204) to produce key tables (212)

in which information for representing the storage positions of the **records** which has been received is registered together with the **sorted key** values, as the **sorting** result.

USE/ADVANTAGE - In distributed **database** system. Improve efficiency of sort processing.

d

Dwg.1/13

Title Terms: SORT; DISTRIBUTE; **DATABASE** ; SYSTEM; ASSIGN; NUMBER; SECTION; DISTRIBUTE; RANGE; KEY; VALUE; **RECORD** ; **DATABASE** ; PARTITION; NUMBER; SECOND; PROCESSOR

Derwent Class: T01

International Patent Class (Main): **G06F-007/24** ; **G06F-017/30**

International Patent Class (Additional): **G06F-012/00**

File Segment: EPI

12/5/49 (Item 29 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009082373 \*\*Image available\*\*

WPI Acc No: 1992-209790/199226

XRPX Acc No: N92-159114

**Method of controlling deferred request execution data processing system - associating with each request sets of attributes which have relative priorities and sort criteria to allow request to be prioritised**

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: WANG D S; WILLIAMS M L

Number of Countries: 002 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 491642	A2	19920624	EP 91480165	A	19911025	199226 B
CA 2053969	A	19920521	CA 2053969	A	19911022	199232
EP 491642	A3	19921014	EP 91480165	A	19911025	199340
US 5448731	A	19950905	US 90616164	A	19901120	199541
CA 2053969	C	19960806	CA 2053969	A	19911022	199642

Priority Applications (No Type Date): US 90616164 A 19901120

Cited Patents: No-SR.Pub; 1.Jnl.Ref; EP 362106; EP 371610; US 4642756

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 491642	A2	E	10	G06F-009/46	
US 5448731	A		9	G06F-007/00	
CA 2053969	A			G06F-009/00	
EP 491642	A3			G06F-009/46	
CA 2053969	C			G06F-009/00	

Abstract (Basic): EP 491642 A

The method involves establishing a deferred application request service within a data processing system. The distributed data processing system has resources, such as a **database** , which can accept requests to be processed at some point in the future. The deferred application request service operates on a Precedent Vector Object (PVO, 60). The PVO includes a number of rows and columns. The rows represent different use attributes (70) with column A having the highest priority. A criteria operator (72) indicates the sorting order for the columns for each attribute.

The different requests are sorted by attribute and criteria to determine the order in which to process the requests.

USE/ADVANTAGE - Provides more flexible and controllable method of ordering requests than first-in first-out approach.

Dwg.3/5

Title Terms: METHOD; CONTROL; DEFER; REQUEST; EXECUTE; DATA; PROCESS; SYSTEM; ASSOCIATE; REQUEST; SET; ATTRIBUTE; RELATIVE; PRIORITY; SORT; CRITERIA; ALLOW; REQUEST

Derwent Class: T01

International Patent Class (Main): **G06F-007/00** ; **G06F-009/46**

International Patent Class (Additional): **G06F-015/16**

File Segment: EPI

12/5/51 (Item 31 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007836466

WPI Acc No: 1989-101578/198914

XRPX Acc No: N89-077495

**Multi-lingual ordered data retrieval system - has common index of sort keys , ordered according to set criteria, each indicating entry in data store with which it is associated**

Patent Assignee: NORTHERN TELECOM LTD (NELE )

Inventor: DCRUZ M G; KULINEK E; LEE E

Number of Countries: 007 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 310283	A	19890405	EP 88308696	A	19880920	198914 B
CA 1280215	C	19910212				199112
US 5148541	A	19920915	US 87133768	A	19871216	199240
			US 89481642	A	19891103	

Priority Applications (No Type Date): CA 548048 A 19870928

Cited Patents: 3.Jnl.Ref; A3...9134; No-SR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 310283	A	E	57		
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Designated States (Regional): DE FR GB NL SE

US 5148541	A	41	G06F-007/08	Cont of application	US 87133768
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Abstract (Basic): EP 310283 A

The multilingual **database** (60) comprises a data store (62) for storing multilingual data. A common index (63) of **sort keys** (163) is provided where the keys are ordered according to predetermined criteria and each **sort key** has an indication (67) of an entry in the data store with which it is associated. The predetermined criteria includes a master alphabetical **sort** order for all the languages supported by a multilingual character **set** used in the **database** .

The predetermined criteria also includes both a master alphabetical **sort** order for all the languages supported by a multilingual character **set** used in the **database** and accent priority.

0/15

Title Terms: MULTI; LINGUAL; ORDER; DATA; RETRIEVAL; SYSTEM; COMMON; INDEX; SORT; KEY; ORDER; ACCORD; SET; CRITERIA; INDICATE; ENTER; DATA; STORAGE; ASSOCIATE

Derwent Class: T01

International Patent Class (Main): G06F-007/08

International Patent Class (Additional): G06F-015/40

File Segment: EPI

?

File 348:EUROPEAN PATENTS 1978-2003/Jul W03

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030807,UT=20030731

(c) 2003 WIPO/Univentio

Set	Items	Description
S1	542186	DATABASE? ? OR DATA()BASE? ? OR TABLE? ? OR REPOSITOR??? OR RECORD? ?
S2	115857	S1(5N)(PEOPLE OR PERSON? ? OR CONTACT? ? OR ASSOCIATE? OR - FRIEND? OR INDIVIDUAL? ? OR EMPLOYEE? OR MEMBER? ? OR ENTITY - OR ENTITIES OR STUDENT? OR USER? ? OR CUSTOMER? ? OR CONSUMER? ? OR PARTNER? ? OR ADDRESS?? OR NAME? ?)
S3	1089243	CATEGORY OR CATEGORIES OR CLASS OR CLASSES OR GROUP???? OR CLASSIFICATION? ? OR THEME? ? OR SET? ? OR CLUSTER? OR COLLECTION? ?
S4	12358	S3(10N)SORT???
S5	2144	SORT???(5N)(FIELD? ? OR KEY? ? OR MENU? ? OR BUTTON? ?)
S6	1145	S3(5N)SORT???(5N)(SEPARAT??? OR DIFFERENT? OR DISTINCT??? - OR OWN OR ITSELF)
S7	1231	S3(5N)(ASSOCIAT? OR CORRESPOND? OR CORRELAT? OR RELAT??? OR APPLICABLE OR MATCH??? OR MAP????) (5N)SORT???
S8	241	S1(S)S4(S)S5:S7 AND IC=G06F
S9	44	S8/TI,AB,CM
S10	197	S8 NOT S9
S11	45	SORT???,TI,AB AND S10

9/5,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2003 European Patent Office. All rts. reserv.

00769888

**PRIORITY QUEUE FILTERING SYSTEM AND METHOD OF OPERATION**  
**SYSTEM ZUM FILTERN VON PRIORITATSWARTESCHLANGEN UND BETRIEBSVERFAHREN**  
**SYSTEME DE FILTRAGE DE FILE D'ATTENTE PRIORITAIRE ET PROCEDE DE MISE EN**  
**UVRE DE CE SYSTEME**

**PATENT ASSIGNEE:**

i2 TECHNOLOGIES, INC., (2129161), Suite 1600, 909 East Las Colinas  
Boulevard, Irving, TX 75039, (US), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IE;IT;LI;LU;MC;NL;PT;SE)

**INVENTOR:**

HOGGE, John, C., 622 Sherwood Drive, Richardson, TX 75080, (US)

**LEGAL REPRESENTATIVE:**

Harris, Ian Richard et al (72231), D. Young & Co., 21 New Fetter Lane,  
London EC4A 1DA, (GB)

**PATENT (CC, No, Kind, Date):** EP 755537 A1 970129 (Basic)  
EP 755537 A1 970409  
EP 755537 B1 981230  
WO 9610225 960404

**APPLICATION (CC, No, Date):** EP 95933844 950918; WO 95US11832 950918

**PRIORITY (CC, No, Date):** US 314073 940928

**DESIGNATED STATES:** AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC;  
NL; PT; SE

**INTERNATIONAL PATENT CLASS:** G06F-007/24;

**NOTE:**

No A-document published by EPO

**LEGAL STATUS (Type, Pub Date, Kind, Text):**

**Lapse:** 000607 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19981230, PT 19990330,

**Application:** 960710 A International application (Art. 158(1))

**Lapse:** 020626 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19981230, CH 19981230, LI 19981230, ES  
19981230, GR 19981230, PT 19990330,

**Lapse:** 001227 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19981230, CH 19981230, LI 19981230, PT  
19990330,

**Lapse:** 001213 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19981230, CH 19990406, LI 19990406, PT  
19990330,

**Lapse:** 010606 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19981230, CH 19981230, LI 19981230, GR  
19981230, PT 19990330,

**Application:** 970129 A1 Published application (A1with Search Report  
;A2without Search Report)

**Examination:** 970129 A1 Date of filing of request for examination:  
960222

**Search Report:** 970409 A1 Drawing up of a supplementary European search  
report: 970217

**Examination:** 970716 A1 Date of despatch of first examination report:  
970530

**Grant:** 981230 B1 Granted patent

**Lapse:** 990825 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19981230,

**Oppn None:** 991222 B1 No opposition filed: 19991001

**LANGUAGE (Publication,Procedural,Application):** English; English; English

**FULLTEXT AVAILABILITY:**

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9853	1015
CLAIMS B	(German)	9853	951



CLAIMS B	(French)	9853	1129
SPEC B	(English)	9853	3868
Total word count - document A			0
Total word count - document B			6963
Total word count - documents A + B			6963

...CLAIMS of data records (16,18) according to the fixed preferences associated with each data record.

14. The method of Claim 13, wherein the step of **sorting** (38) further comprises **sorting** the remaining **set** (12) of data **records** according to additional criteria **associated** with each data **record**
15. The method of Claim 12, further comprising the step of selecting (30) the plurality of fixed preferences associated with the plurality of data records...

9/5,K/6 (Item 6 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2003 European Patent Office. All rts. reserv.

00741654

**Sorting method**  
**Sortiervverfahren**  
**Methode de tri**

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Gal, Shmuel, 16 Shvedia (Sweden) Street, Haifa, (IL)  
 Galperin, Igal, 164 Fifth Street, Cambridge MA 02141, (US)  
 Yehudai, Zvi, 6a/7 Hanassi Avenue, Haifa, (IL)

LEGAL REPRESENTATIVE:

Lloyd, Richard Graham (75501), IBM (UK) Ltd, UK Intellectual Property Department, Hursley Park, Winchester, Hampshire SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 699994 A1 960306 (Basic)

APPLICATION (CC, No, Date): EP 95305811 950821;

PRIORITY (CC, No, Date): GB 9417857 940903

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-007/24;

ABSTRACT EP 699994 A1

A method is described for operating a computer to **sort** a **set** of data **records** each having an **associated key** for governing the **sort** process, the method comprising determining a range for the key values by sampling the key values; defining a plurality of buckets, each bucket corresponding to a respective one of a plurality M of subintervals in the range, and two edge buckets for key values outside the range, each subinterval having a respective index; distributing the keys among the buckets by determining directly from each key value the index of the subinterval into which the key value falls; and processing the buckets in sequence in order to **sort** the **records**, **sorting** the **keys** in each bucket if the bucket contains more than one key. (see image in original document)

ABSTRACT WORD COUNT: 150

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 960306 A1 Published application (A1with Search Report ;A2without Search Report)

Withdrawal: 970611 A1 Date on which the European patent application was deemed to be withdrawn: 960907

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	491
SPEC A	(English)	EPAB96	2829
Total word count - document A			3320
Total word count - document B			0

...ABSTRACT A1

A method is described for operating a computer to **sort** a **set** of data **records** each having an **associated key** for governing the **sort** process, the method comprising determining a range for the key values by sampling the key values; defining a plurality of buckets, each bucket corresponding to...

...directly from each key value the index of the subinterval into which the key value falls; and processing the buckets in sequence in order to **sort** the **records**, **sorting** the **keys** in each bucket if the bucket contains more than one key. (see image in original document) ...

...CLAIMS A1

1. A method for operating a computer to **sort** a **set** of data **records** each having an **associated key** for governing the **sort** process, the method comprising determining a range for the key values by sampling the key values; defining a plurality of buckets, each bucket corresponding to...

...directly from each key value the index of the subinterval into which the key value falls; and processing the buckets in sequence in order to **sort** the **records**, **sorting** the **keys** in each bucket if the bucket contains more than one key.

2. A method as claimed in any preceding claim, wherein the size and spacing...

...samples whether a substantial number of the keys share a common prefix, and, if so, dividing the keys into subsets, one of which comprises all **keys** sharing the common prefix and **sorting** the key subsets **separately**.

9. Data processing apparatus for **sorting** a **set** of data **records** each having an **associated key** for governing the **sort** process, the apparatus comprising means for determining a range for the key values by sampling the key values; means for defining a plurality of buckets...

...value the index of the subinterval into which the key value falls, the apparatus being arranged to processing the buckets in sequence in order to **sort** the **records**, **sorting** the **keys** in each bucket if the bucket contains more than one key. ...

9/5,K/8 (Item 8 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00572092

**Method for ordering mail items**

**Methode zum Ordnen vom Poststucken**

**Pocede pour ranger des articles postaux**

PATENT ASSIGNEE:

KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho, Saiwai-ku,  
Kawasaki-shi, Kanagawa-ken 210, (JP), (applicant designated states:  
DE;FR;GB;NL)

INVENTOR:

Nagasawa, Tomoji, c/o Intellectual Property Div., K.K. TOSHIBA, 1-1  
Shibaura 1-Chome, Minato-ku, Tokyo 105, (JP)  
Kurokawa, Koji, c/o Intellectual Property Div., K.K. TOSHIBA, 1-1  
Shibaura 1-Chome, Minato-ku, Tokyo 105, (JP)

LEGAL REPRESENTATIVE:

Kirk, Geoffrey Thomas (32661), BATCHELLOR, KIRK & CO. 2 Pear Tree Court  
Farringdon Road, London EC1R 0DS, (GB)

PATENT (CC, No, Kind, Date): EP 575032 A2 931222 (Basic)  
EP 575032 A3 950215  
EP 575032 B1 990203

APPLICATION (CC, No, Date): EP 93302078 930318;

PRIORITY (CC, No, Date): JP 92160960 920619  
DESIGNATED STATES: DE; FR; GB; NL  
INTERNATIONAL PATENT CLASS: B07C-003/02; G06F-007/08;

ABSTRACT EP 575032 A2

The group data and order data items of each of cards (2) transferred one by one are read by a reader (6), and then stored in a memory (51) under the control of a control circuit (50) of a handling apparatus in which each card is **sorted** into that one of the regulating box **groups** (8a - 8n) which **corresponds** to the read **group** data and cards **sorted** into each box **group** are received one by one in a plurality of regulating boxes, and in which the memory (51) stores the relation between the regulating boxes and order data items, a time **table** (51a) prestores data on a transfer time period corresponding to the distance between each regulating box and a discharge reference point of a corresponding exit transfer passage, and the discharge order of the cards is determined by the control circuit (50) by use of the order data and transfer-time data, thereby to discharge cards, arranged in order, into collecting sections (9a - 9n). (see image in original document)

ABSTRACT WORD COUNT: 173

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse: 030219 B1 Date of lapse of European Patent in a contracting state (Country, date): NL 19990203,  
Oppn None: 20000119 B1 No opposition filed: 19991104  
Application: 931222 A2 Published application (Alwith Search Report ;A2without Search Report)  
Examination: 931222 A2 Date of filing of request for examination: 930401  
Search Report: 950215 A3 Separate publication of the European or International search report  
Examination: 970716 A2 Date of despatch of first examination report: 970528  
Grant: 990203 B1 Granted patent

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9905	296
CLAIMS B	(German)	9905	284
CLAIMS B	(French)	9905	352
SPEC B	(English)	9905	5598
Total word count - document A			0
Total word count - document B			6530
Total word count - documents A + B			6530

...ABSTRACT 6), and then stored in a memory (51) under the control of a control circuit (50) of a handling apparatus in which each card is **sorted** into that one of the regulating box **groups** (8a - 8n) which **corresponds** to the read **group** data and cards **sorted** into each box **group** are received one by one in a plurality of regulating boxes, and in which the memory (51) stores the relation between the regulating boxes and order data items, a time **table** (51a) prestores data on a transfer time period corresponding to the distance between each regulating box and a discharge reference point of a corresponding exit...

9/5,K/9 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00536079

Sorting method.

Sortiervverfahren.

Procede de triage.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Cohn, Oded, 20/4 Gut Levin Street, Haifa, 32922, (IL)  
Gal, Shmuel, 16 Shvedia Street, Haifa, (IL)  
Hollander, Yona, 37 Mishmar Hayarden Street, Shikun Dan, Tel-Aviv, (IL)  
Sheinwald, Dafna, 183 Nofit (Pi-Ner), IL-36803, (IL)

LEGAL REPRESENTATIVE:

Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual  
Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)  
PATENT (CC, No, Kind, Date): EP 551691 A1 930721 (Basic)  
APPLICATION (CC, No, Date): EP 92300324 920115;  
PRIORITY (CC, No, Date): EP 92300324 920115  
DESIGNATED STATES: DE; FR; GB  
INTERNATIONAL PATENT CLASS: G06F-007/24;  
CITED PATENTS (EP A): WO 9003609 A  
CITED REFERENCES (EP A):  
PROCEEDINGS 1986 ACM 14TH ANNUAL COMPUTER SCIENCE CONFERENCE 4 February  
1986, NEW YORK page 480 BREWER 'An order f(K)N sort'  
US-I-T913007 (MCKELLAR,14-08-73);

ABSTRACT EP 551691 A1

A method of operating a computer to **sort** a **set** of **keys** each  
**associated** with a **corresponding record** comprises partitioning the  
**keys** into subsets and **sorting** each subset of **keys** in a predefined  
sequence, wherein said partitioning is into subsets each containing keys  
having a distinct codeword relative to a selected one of the set of keys.  
In an embodiment the selected key is selected by randomly sampling the  
keys to determine a typical key and selecting that key. If a typical key  
cannot be identified a conventional MSB sorting method is used. The  
method is applied recursively to fully **sort** a **set** of **keys** . (see  
image in original document)

ABSTRACT WORD COUNT: 112

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 930721 A1 Published application (A1with Search Report  
;A2without Search Report)  
Change: 931006 A1 Representative (change)  
Examination: 940119 A1 Date of filing of request for examination:  
931119  
Examination: 950913 A1 Date of despatch of first examination report:  
950731  
Withdrawal: 970122 A1 Date on which the European patent application  
was deemed to be withdrawn: 960801

LANGUAGE (Publication,Procedural,Application): English; English; English

...ABSTRACT A1

A method of operating a computer to **sort** a **set** of **keys** each  
**associated** with a **corresponding record** comprises partitioning the  
**keys** into subsets and **sorting** each subset of **keys** in a predefined  
sequence, wherein said partitioning is into subsets each containing keys  
having a distinct codeword relative to a selected one of the set...

...and selecting that key. If a typical key cannot be identified a  
conventional MSB sorting method is used. The method is applied  
recursively to fully **sort** a **set** of **keys** . (see image in original  
document)

9/5,K/10 (Item 10 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00367287

Data base management system and method therefor

Datenbankverwaltungssystem und Verfahren hierfür

Systeme de gestion de base de donnees et methode correspondante

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road,  
Armonk, N.Y. 10504, (US), (Proprietor designated states: all)

INVENTOR:

Haderle, Donald James, 812 Lilac Way, Los Gatos, CA 95030, (US)  
Watts, Julie Ann, 734 Natoma Drive, San Jose, CA 95123, (US)

LEGAL REPRESENTATIVE:

Davies, Simon Robert et al (75451), I B M UK Intellectual Property  
Department Hursley Park, Winchester, Hampshire SO21 2JN, (GB)  
PATENT (CC, No, Kind, Date): EP 351210 A2 900117 (Basic)  
EP 351210 A3 921014  
EP 351210 B1 000105

APPLICATION (CC, No, Date): EP 89307080 890712;

PRIORITY (CC, No, Date): US 219512 880715

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

CITED REFERENCES (EP A):

PROCEEDINGS INTERNATIONAL SYMPOSIUM ON DATABASES IN PARALLEL AND  
DISTRIBUTED SYSTEMS 5 December 1988, AUSTIN, USA pages 202 - 209; M.  
SAMY GAMAL-ELDIN ET AL: 'Integrating Relational Databases with Support  
for Updates'

7TH INTERNATIONAL CONFERENCE ON VERY LARGE DATA BASES 9 September 1981,  
CANNES, FRANCE pages 2 - 12; C. J. DATE: 'REFERENTIAL INTEGRITY'  
THE SECOND INTERNATIONAL CONFERENCE ON COMPUTERS AND APPLICATIONS,  
23rd-27th June 1987, Beijing, CN, pages 733-741; K.K. CHAN et al.: "An  
implementation algorithm for integrity enforcement";

CITED REFERENCES (EP B):

PROCEEDINGS INTERNATIONAL SYMPOSIUM ON DATABASES IN PARALLEL AND  
DISTRIBUTED SYSTEMS 5 December 1988, AUSTIN, USA pages 202 - 209; M.  
SAMY GAMAL-ELDIN ET AL: 'Integrating Relational Databases with Support  
for Updates'

7TH INTERNATIONAL CONFERENCE ON VERY LARGE DATA BASES 9 September 1981,  
CANNES, FRANCE pages 2 - 12; C. J. DATE: 'Referential Integrity'  
THE 2ND INTERNATIONAL CONFERENCE ON COMPUTERS AND APPLICATIONS, June  
23-27, 1987, BEIJING, CHINA, pages 733-741; K.K. CHAN et al.: "An  
Implementation Algorithm For Integrity Enforcement".;

ABSTRACT EP 351210 A2

A method is disclosed for deferring enforcement of referential  
constraints in large-scale **data base** operations such as the  
population or loading of relational **tables** 10, 12. First, the new rows  
are loaded in a Data Load phase 24 into the **tables**, and information on  
the new rows and their constraints is extracted and **sorted** 26 into a  
**sorted key data set** 68. Any primary indexes 22 required for  
constraint checking are then updated 28 using the **sorted key data**  
**set**. The new rows are then checked 70 for constraint violations, such  
violations are rectified 72 to restore the **table**'s referential  
integrity, and a deletion data **set** 80 is produced. The deletion data  
**set** is merged and **sorted** 86 with row information 53 stored during  
loading, and the result is used to copy 88 the new rows violating  
referential constraints to a separate discard data set 48 where they can  
be corrected and reloaded into the **table**. Finally, an error summary  
report 36 is generated for use in correcting the discard data set. (see  
image in original document)

ABSTRACT WORD COUNT: 181

LEGAL STATUS (Type, Pub Date, Kind, Text):

Oppn None: 001220 B1 No opposition filed: 20001006  
Grant: 20000105 B1 Granted patent  
Application: 900117 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Examination: 900711 A2 Date of filing of request for examination:  
900512  
Search Report: 921014 A3 Separate publication of the European or  
International search report  
Examination: 930707 A2 Date of despatch of first examination report:  
930525  
Change: 990414 A2 Title of invention (German) (change)  
Change: 990414 A2 Title of invention (English) (change)  
Change: 990414 A2 Title of invention (French) (change)  
Change: 990421 A2 Title of invention (German) (change)  
Change: 990421 A2 Title of invention (English) (change)

Change: 990421 A2 Title of invention (French) (change)  
 Change: 990428 A2 Title of invention (German) (change)  
 Change: 990428 A2 Title of invention (English) (change)  
 Change: 990428 A2 Title of invention (French) (change)  
 LANGUAGE (Publication,Procedural,Application): English; English; English  
 FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200001	919
CLAIMS B	(German)	200001	873
CLAIMS B	(French)	200001	1077
SPEC B	(English)	200001	5347
Total word count - document A			0
Total word count - document B			8216
Total word count - documents A + B			8216

...ABSTRACT A2

A method is disclosed for deferring enforcement of referential constraints in large-scale **data base** operations such as the population or loading of relational **tables** 10, 12. First, the new rows are loaded in a Data Load phase 24 into the **tables** , and information on the new rows and their constraints is extracted and **sorted** 26 into a **sorted key** data **set** 68. Any primary indexes 22 required for constraint checking are then updated 28 using the **sorted key** data **set** . The new rows are then checked 70 for constraint violations, such violations are rectified 72 to restore the **table** 's referential integrity, and a deletion data **set** 80 is produced. The deletion data **set** is merged and **sorted** 86 with row information 53 stored during loading, and the result is used to copy 88 the new rows violating referential constraints to a separate discard data set 48 where they can be corrected and reloaded into the **table** . Finally, an error summary report 36 is generated for use in correcting the discard data set. (see image in original document)

9/5,K/12 (Item 12 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
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00064170

Method of qualifying and sorting file record data in a text processing system.

Verfahren zur Qualifizierung und Sortierung von Informationen von einem Aufzeichnungssatzesspeicher in einem Textverarbeitungssystem.

Methode pour qualifier et classer l'information de fichier d'enregistrements dans un systeme de traitement de texte.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;IT)

INVENTOR:

Chang, Philip Yen-Tang, 11207 Blackmoor Drive, Austin Texas 78759, (US)  
 Hoffman, Virginia Marie, 11212 Blackmoor Drive, Austin Texas 78759, (US)  
 McInroy, John Wise, 2108 Woodmont Avenue, Austin Texas 78703, (US)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 65114 A2 821124 (Basic)  
 EP 65114 A3 840328  
 EP 65114 B1 880330

APPLICATION (CC, No, Date): EP 82103332 820421;

PRIORITY (CC, No, Date): US 264959 810518; US 264797 810518

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-007/22; G06F-015/20;

CITED PATENTS (EP A): US 4209845 A; US 3964029 A

ABSTRACT EP 65114 A2

Method of qualifying and sorting file record data in a text processing system.

**Record** data on a disk file (80) is sorted by means of an algorithm

that transfers such **records** on the basis of rank to a sort buffer (64) on the basis of qualifying criteria. Each qualified file **record** from I/O buffer (82) is compared with the lowest ranked **record** previously transferred and located in the sort buffer (64). When a higher ranked **record** is identified it is transferred into the buffer (64) at a location based on qualification. Lower ranked **records** are deleted from the sort buffer (64) if space does not permit the storing of such **records** within the space available. When the sort buffer (64) has been loaded with the highest ranked **records** without overflowing the sort buffer (64) can be unloaded to the disk file (80). To minimize recycle time, a presort algorithm is run to **set record** identifying bits in a bit **map** section of the **sort** buffer, such that each time the contents of the sort buffer (64) is output the **record** identifying bits for the **records** are reset to a second state. The second state of a **record** identifying bit indicates that that **record** will not be considered for future passes through the sort routine.

ABSTRACT WORD COUNT: 216

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 821124 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Examination: 830601 A2 Date of filing of request for examination:  
830322  
Search Report: 840328 A3 Separate publication of the European or  
International search report  
Grant: 880330 B1 Granted patent  
Oppn None: 890315 B1 No opposition filed  
Lapse: 991020 B1 Date of lapse of European Patent in a  
contracting state (Country, date): IT  
19880330,

LANGUAGE (Publication,Procedural,Application): English; English; English

...ABSTRACT A2

Method of qualifying and sorting file record data in a text processing system.

**Record** data on a disk file (80) is sorted by means of an algorithm that transfers such **records** on the basis of rank to a sort buffer (64) on the basis of qualifying criteria. Each qualified file **record** from I/O buffer (82) is compared with the lowest ranked **record** previously transferred and located in the sort buffer (64). When a higher ranked **record** is identified it is transferred into the buffer (64) at a location based on qualification. Lower ranked **records** are deleted from the sort buffer (64) if space does not permit the storing of such **records** within the space available. When the sort buffer (64) has been loaded with the highest ranked **records** without overflowing the sort buffer (64) can be unloaded to the disk file (80). To minimize recycle time, a presort algorithm is run to **set record** identifying bits in a bit **map** section of the **sort** buffer, such that each time the contents of the sort buffer (64) is output the **record** identifying bits for the **records** are reset to a second state. The second state of a **record** identifying bit indicates that that **record** will not be considered for future passes through the sort routine.

9/5,K/17 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00861441 \*\*Image available\*\*

METHOD AND APPARATUS FOR DISPLAYING INFORMATION

PROCEDE ET APPAREIL PERMETTANT D'AFFICHER DES INFORMATIONS

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200195051 A2-A3 20011213 (WO 0195051)

Application: WO 2001CN732 20010510 (PCT/WO CN0100732)

Priority Application: WO 2000CN132 20000526

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DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/21

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3781

English Abstract

The present invention relates to a method and an apparatus for displaying text information in different sort orders. The method comprises the steps of selecting one of a plurality of sort order criteria; sorting a plurality of string objects based on the selected sort order; and displaying the string objects in selected **sort** order. The string objects may further be divided into **groups**, and the string objects of the selected group are displayed in a manner that is different from the manner of displaying the string objects of other groups or the cursor is moved to the location of string objects of the selected **group**. The user may use **different sort** orders and **groups** to find out the desired **record**.

French Abstract

La presente invention concerne un procede et un appareil permettant d'afficher des informations de texte dans des ordres de tri differents. Ce procede consiste a selectionner un ou plusieurs criteres d'ordres de tri differents, a trier une pluralite d'objets de chaine a partir de l'ordre de tri selectionne et a afficher ces objets de chaine dans l'ordre de tri selectionne. Les objets de chaine peuvent aussi etre divises en groupes, et les objets de chaine du groupe selectionne sont affiches d'une facon differente de celle des objets de chaine des autres groupes ou le curseur est deplace au niveau des objet de chaine du groupe selectionne. L'utilisateur peut se servir d'ordres de tri differents et de groupes pour trouver l'enregistrement recherche.

Legal Status (Type, Date, Text)

Publication 20011213 A2 Without international search report and to be republished upon receipt of that report.

Examination 20020307 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20020502 Late publication of international search report



English Abstract

...a plurality of sort order criteria; sorting a plurality of string objects based on the selected sort order; and displaying the string objects in selected sort order. The string objects may further be divided into groups, and the string objects of the selected group are displayed in a manner that is different from the manner of displaying the string objects of other groups or the cursor is moved to the location of string objects of the selected group. The user may use different sort orders and groups to find out the desired record.

9/5,K/19 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00842385 \*\*Image available\*\*

PERSONAL COMMUNICATION DEVICE FOR SCHEDULING PRESENTATION OF DIGITAL CONTENT

PROCEDE ET APPAREIL DE PLANIFICATION DE LA PRESENTATION D'UN CONTENU NUMERIQUE SUR UN DISPOSITIF DE COMMUNICATION PERSONNEL

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200176120 A2-A3 20011011 (WO 0176120)  
Application: WO 2001US11055 20010404 (PCT/WO US0111055)  
Priority Application: US 2000194644 20000404; US 2000229235 20000831; US  
2000232063 20000912; US 2000745617 20001220

Parent Application/Grant:

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Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG  
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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International Patent Class: G09G-005/08; G06T-011/20; G06F-013/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 51119

English Abstract

A communication network client device (D1, D2, D3, D4, D5, DN) having a software scheduling agent. The software scheduling agent is part of a probabilistic modeling system in which the scheduler operates to perform constrained random variation with selection. Digital content is generated, organized, and stored on the communication network devices

(C1, C2, CN). An electronic digital content wrapper, which holds information in the form of data and metadata related to the digital content is associated with each item of digital content. Contextual profile of each user and each item of digital content are established by the users (U1, U2, U3, U4, U5, UN) and the network and maintained by a service provider (NC1) on the communication network and will be digitally packaged and presented to particular users (U1, U2, U3, U4, U5, UN) over those user's client devices (D1, D2, D3, D4, D5, DN) after a comparison and determination processing means.

#### French Abstract

L'invention concerne un procede et un appareil dans lesquels reside un agent de planification de logiciel sur un reseau de communication et/ou un dispositif client, tel que des appareils de communication sans fil tenant compte de la position, des postes de television, ou d'autres dispositifs client d'utilisateur final. L'agent de planification logiciel fait partie d'un systeme de modelisation probabiliste dans lequel le planificateur agit de maniere a executer une variation aleatoire contrainte avec selection. Le contenu numerique est genere, organise, et stocke sur un reseau de communication et/ou des dispositifs client. Un emballer de contenu numerique electronique, qui contient des informations sous forme de donnees et de metadonnees liees au contenu numerique est associe a chaque article du contenu numerique. Les profils contextuels pour chaque utilisateur et chaque article de contenu numerique sont etablis par les utilisateurs et le reseau et conserve par un fournisseur de service sur un reseau de communication. L'agent de planification logiciel compare le profil de contenu numerique contextuel de chaque article de contenu numerique au profil d'utilisateur contextuel de chaque utilisateur afin de determiner quel contenu numerique devrait etre offert pour la presentation de chaque utilisateur. La comparaison et la determination des articles de contenu numerique devant etre offert pour la presentation des utilisateurs est effectuee par un procede de variation aleatoire contrainte. Une fois que l'agent de planification logiciel a determine les articles de contenu numerique les plus importants ou les plus interessants pour l'utilisateur, le contenu numerique est transmis, en entier ou en partie, a des intervalles de temps definis, via un reseau de communication aux dispositifs client appropries. Le contenu numerique est ensuite stocke, en entier ou en partie, dans une memoire cache sur le dispositif client jusqu'a un intervalle de temps approprie lorsque le contenu numerique est integre de facon numerique et presente a des utilisateurs particuliers via des dispositifs client d'utilisateur.

#### Legal Status (Type, Date, Text)

Publication	20011011	A2 Without international search report and to be republished upon receipt of that report.
Search Rpt	20020103	Late publication of international search report
Republication	20020103	A3 With international search report.
Examination	20020502	Request for preliminary examination prior to end of 19th month from priority date

#### Fulltext Availability:

Claims

#### Claim

... each digital content element possibly having hundreds of wrapper elements. Network 11 may require that members, including users and network affiliates, enter or select **category** designations or **key** words to allow **sorting** and analysis of the content subjects. Alternatively, a software agent could be established which parses the digital content or the associated wrappers and infers the...privacy block 406. Figure 1 L in the drawings is a tabular representation of a novel contextual user profile according to the present invention. A **table** 407 has a user/appliance column 409 which lists each appliance 351, 353, 355, 357, 359, and 361. Contextual user profiles 411, 413, 415, 417, 419, and 421 are represented by the rows of **table** 407, and correspond to appliances 351, 353, 355, 357, 359, and 361 I respectively. Contextual user profiles 411, 413, 415, 417, 419, and 421 go...

...of location, time, and personal likes and dislikes. The broad diversity of contextual user profiles 411, 413, 415, 417, 419, and 421 is depicted in **table 407**. The user of appliance 351 has the following exemplary static data components: biographical data B1 , demographic data DM3, and cultural data C1; the fnlirmiinn...

...and the following soft dynamic data components: food preferences daia F3, entertainment preferences data E2, relationship preferences data R1 , and privacy blocks P3. Continuing with- **table 407** of Figure 1 L, the user of appliance 357 has the following exemplary static data components: biographical data B1 , demographic data DM2, and cultural...

9/5,K/22 (Item 10 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00799849 \*\*Image available\*\*

**ACCESS BY CONTENT BASED COMPUTER SYSTEM**

**SYSTEME INFORMATIQUE INVERSE A ACCES PAR CONTENU PLUTOT QUE PAR ADRESSE ET  
MISE EN PLACE ENTIEREMENT OPTIMISEE DE CE SYSTEME**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2000IB1697 20001026 (PCT/WO IB0001697)

Priority Application: US 99161579 19991026

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DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

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Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 15579

**English Abstract**

Content-accessible method and system for operation of a computer. The three main parts of this invention include, first, a method for defining, classifying and indexing content; second, a method for designating all real numbers such that they can be arranged easily in a monotonic fashion; and third, a fast, linear method of sorting through the content according to the associated monotonic real numbers. The problem of ergonomics is solved by a simple dialogue box and a button asking for some "advanced" search. The possibility of searching by "themes" is added to this. A theme is defined by words, expressions or texts and is used to get pertinent information. The system uses semantics: the meaning of words. When searching for a theme, one does a Boolean OR on the words of the theme, or a selection of the most pertinent of them associated with the proximity constraint: at least N words must be in the same paragraph. The results are then sorted by pertinence to reduce the noise. FOCUS is not a full text engine as it detects groups of words, words roots,

synonyms, "concepts" (Focusers) and stores all these in its repository. Every "knowledge" is extracted on data input and stored in the FOCUS repository. Analysis implies identification of the data format, decoding of it, detecting language on textual information, running the linguistic procedures and storing the result according to FOCUS input format.

#### French Abstract

L'invention concerne un procede et un systeme accessibles par contenu, utiles pour l'exploitation d'un ordinateur. Les trois parties principales de l'invention comprennent : premierement, un procede servant a definir, a classer et a indexer du contenu ; deuxiemement, un procede de designation de tous les nombres reels qui permette de classer ceux-ci facilement de maniere monotone ; et troisiemement, un procede lineaire rapide de tri du contenu en fonction des nombres reels monotones associes. La question d'ergonomie est resolue au moyen d'une boite de dialogue simple et d'un bouton de demande de recherche "avancee"; une possibilite de recherche par "themes" y est ajoutee. Un theme est defini par des mots, des expressions ou des textes et est utilise pour obtenir des informations pertinentes. Le systeme utilise la semantique : la signification des mots. Lors de la recherche d'un theme, une fonction OU booleenne est appliquee aux mots du theme, ou a une selection des mots les plus pertinents associee a la contrainte de proximite : au moins N mots doivent se trouver dans le meme paragraphe. Les resultats sont ensuite tries par pertinence pour reduire le bruit. "FOCUS" n'est pas un moteur de recherche sur texte integral puisqu'il detecte des groupes de mots, des racines de mots, des synonymes, des "concepts" ("Focusers") et stocke tous ces elements dans son organe de depot. Chaque <= connaissance >= est extraite d'entrees de donnees et stockee dans l'organe de depot de "FOCUS". Une analyse implique l'identification du format de donnees, le decodage de celui-ci, la detection de la langue des informations textuelles, l'execution de procedures linguistiques et le stockage des resultats dans le format d'entree de "FOCUS".

#### Legal Status (Type, Date, Text)

Publication	20010510	A2 Without international search report and to be republished upon receipt of that report.
Examination	20010913	Request for preliminary examination prior to end of 19th month from priority date
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Republication	20020829	A2 Without international search report and to be republished upon receipt of that report.
Correction	20020829	Corrected version of Pamphlet:
Search Rpt	20030515	Late publication of international search report
Republication	20030515	A3 With international search report.

#### Fulltext Availability:

Claims

#### Claim

... to express the request as the user likes (Query 104), (2) getting pertinent and immediate information 105. The content accessible information functionally resides in a **repository** 106. These last two points define what may be considered an ideal information retrieval system.

Point I is mainly a matter of ergonomics. A simple...

...be recorded as contents. They are part of the items of the computer system that carry a meaning. For instance, for each filename, one will **record** the complete path along with all of

4

its components: drive ID, directory names, directory extensions, file name, file extension and every word in these...

...a retrieval system to access all elements stored. (E) Doing all this as close to a real-time as possible. Instant retrieval means building a **repository** with direct access to all its information contents. Having

user's accesses, the shorter the time will be to I/O run a backup procedure. When backing up, the watchdog keeps on working but the feeding process is stopped so that the copy involves a known situation. Then the **repositories** are copied. The more we have, the smaller they will be and the shorter the backup time.

Repository (Index) Management

1.5 incremental/decremental index updating w/o copying the index

Usually an update to a **repository** triggers a periodical update of the **repository** itself. This implies that the space made available is twice as much as what is needed. The FOCUS routines are doing their own "garbage collection" which eliminates the need of copying a **repository** to get rid of its slack.

20 caching indexes for real-time indexing

Not sorting the input data directly into the final **repository** allows a faster sort and a faster production of a "cache" **repository** that can be quickly accessed, thus providing almost real-time access to recorded or received information.

use of monotonic access methods on index files including...

...was unsuccessful. This allows the calling program to decide on the next call to be made (see the substitution process).

1.8

generalized indexing of **databases**

This is where references to **table / record** replace reference to file names

automatic references non-limiting for real-time indexing

Intercepting Operating system calls on file openings, file closing, writing to 5...

9/5, K/28 (Item 16 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00748785 \*\*Image available\*\*

**GROUP TARGETED CONTENT PERSONALIZATION**

**PERSONNALISATION DU CONTENU POUR GROUPE EN COMMUN**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US9974 20000413 (PCT/WO US0009974)

Priority Application: US 99129106 19990413

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Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4249

English Abstract

Group Targeted Content Personalization (GTCP) is a multi-dimensional categorization of content taxonomy and user-affiliation which generates personalized web home pages for individuals. The web pages are personalized both by the audience type of a user and by the personal preferences of the user. A content database may include measurements of content quality, which can be used to sort displayed content for the

user.

#### French Abstract

La personnalisation du contenu pour groupe en commun (PCGC) consiste a effectuer une categorisation multidimensionnelle de la taxinomie du contenu et de l'appartenance utilisateur generant une page web d'accueil personnalisee pour des individus. Les pages web sont personnalises par les destinataires (utilisateur) et par les preferences personnelles de l'utilisateur. Une base de donnees du contenu comprend des mesures de la qualite du contenu servant a trier le contenu affiche a l'ecran.

Legal Status (Type, Date, Text)

Publication 20001019 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability:

Claims

#### Claim

... returning only those portions of the selected pages corresponding to the user's audience type. 1 8 2. The method of claim 1, further comprising **sorting** a **group** of identifiers on a page **associated** with a single audience classification according to value of their associated content items. 22 3. The method of claim 2, wherein the value of the...

9/5,K/43 (Item 31 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00251659 \*\*Image available\*\*

#### METHOD OF SORTING AND COMPRESSING DATA

#### PROCEDE DE TRI ET DE COMPRESSION DE DONNEES

Patent Applicant/Assignee:

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Inventor(s):

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ROSS Eduardo C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9325958 A1 19931223

Application: WO 93US4441 19930511 (PCT/WO US9304441)

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Main International Patent Class: G06F-007/22

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12324

#### English Abstract

A method for sorting data in a computer data storage system that has particular advantages in implementing a **key** index tree structure. The **sorting** method uses buffer-size substrings (step 90) to **sort** strings of **key records** (step 91) into a list structure that can be directly transformed into an index tree. The **sorting** method also may be used for **sorting** large **sets** of data **records** in place on a computer storage system. The method further integrates prefix compression (step 92) and suffix compression (step 99) of **key records** with the **sorting** method to reduce the number of input/output operations required to create a more compact key index tree structure.

#### French Abstract

L'invention porte sur un procede de tri de donnees dans un systeme de stockage d'informations qui presente certains avantages pour la mise en oeuvre d'une structure arborescente d'index cle. Ledit procede de tri utilise des sous-chaines (etape 90) de la taille d'un tampon pour trier des chaines d'enregistrements cles (etape 91) et former une structure des

listes enchainees qui peut etre transformee directement en arbre d'index. Ce procede de tri peut egalement etre utilise pour trier des ensembles importants de donnees a la place d'un systeme de stockage informatique. L'invention concerne egalement un procede de compression prefixee (etape 92) et la compression suffixee (etape 99) d'enregistrements cles au moyen de la methode de tri afin de reduire le nombre d'operations d'entree/sortie requises pour creer une structure arborescente d'index cle plus compacte.

Fulltext Availability:  
Claims

#### English Abstract

A method for sorting data in a computer data storage system that has particular advantages in implementing a **key** index tree structure. The **sorting** method uses buffer-size substrings (step 90) to **sort** strings of **key records** (step 91) into a list structure that can be directly transformed into an index tree. The **sorting** method also may be used for **sorting** large **sets** of data **records** in place on a computer storage system. The method further integrates prefix compression (step 92) and suffix compression (step 99) of **key records** with the **sorting** method to reduce the number of input/output operations required to create a more compact key index tree structure.

#### Claim

... the

steps of:

- (1) reading part of the data from the storage system into a pre-sort buffer;
- (2) sorting the data in the pre- **sort** buffer;
- (3) generating substring pointer **fields** for the **sorted** data in the pre-sort buffer at intervals corresponding to a determined substring length,, with each substring pointer field being set to indicate the...data strings,, each comprising a plurality of substrings,, stored on the storage system;
- (b) merging the data in place on the storage system into a **set** of logically linked, **sorted** ,, compressed substrings,, including the steps of:
  - (1) allocating in the memory means at least two input buffers and one output buffer each of a length...

...for all sub

- strings of the plurality of data strings and all new substrings until all of the data therein is merged, thereby generating a **set** of compressed substrings linked in **sorted** logical order by means of the substring pointer fields;
- (c) generating a key index compressed multi-node tree structure for the data in the **sorted set** of substrings stored on the storage system, including the steps of:
    - (1) establishing at least a first level branch node **table** for temporarily storing location reference information indicative of the location of selected data in the storage system;
    - (2) reading into a tree index buffer the...

...for a selected

- portion of the data in the tree index buffer and storing the location reference in the first level of the branch node **table** ;
- (4) when the first level branch node **table** is full, writing the contents of the branch node **table** to the

00170160

**IMPROVED SORTING METHOD**

**PROCEDE AMELIORE DE TRI**

Patent Applicant/Assignee:

McCAULEY Peter B,

Inventor(s):

McCAULEY Peter B,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9003609 A1 19900405

Application: WO 88US3355 19880929 (PCT/WO US8803355)

Priority Application: WO 88US3355 19880929

Designated States: AT AU BE CH DE DK FR GB IT JP KR LU NL SE SU

Main International Patent Class: G06F-007/08

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11676

**English Abstract**

A method is disclosed which provides for sorting computer data records in a minimum amount of time. Records are sorted according to their keys, typically from the most significant digit, or character, to the least significant. The records are placed in or associated with various bins depending on the character on which the record is presently being sorted (3-17). These bins are linked together (20-44) and appended to a front section when they are completely sorted (45). A first process (3-17) in the present invention involves testing for equality between characters in adjacent records, and if equality does exist, not performing numerous otherwise necessary but tedious and time consuming procedures. A second process (3-17, 20-44) involves the use of an auxiliary or 'bins used' table to identify the bins actually used in the current group of records. This auxiliary table is used to determine which bins to process if only a few bins are used. These two novel processes independently and in combination result in a reliably faster and more efficient sorting procedure than previously known, and may be applied to any type of bin type sorting procedure.

**French Abstract**

On decrit un procede permettant de trier des enregistrements de donnees informatiques dans un laps de temps minimum. Les enregistrements sont tries en fonction de leurs cles, et plus precisement du chiffre ou caractere le plus significatif du chiffre ou caractere le moins significatif. Les enregistrements sont places dans ou associes avec diverses cases selon le caractere sur lequel se fonde le tri en cours (3-17). Ces cases sont regroupees (20-44) et annexees a une section frontale lorsqu'elles ont ete completement trie'es (45). Une premiere etape (3-7) de la presente invention consiste a rechercher une egalite entre des caracteres situes dans des enregistrements adjacents, et s'il y a egalite, a ne pas effectuer nombre d'autres procedures longues et laborieuses qui, en d'autres circonstances, seraient necessaires. Une seconde etape (3-17, 20-44) consiste a utiliser une table auxiliaire ou 'de cases utilisees' pour identifier les cases reellement utilisees dans le groupe donne d'enregistrement. Cette table auxiliaire permet de determiner quelles sont les cases a traiter lorsque quelques cases seulement sont utilisees. Ces deux nouveaux procedes, que ce soit independamment ou en combinaison, peuvent s'appliquer a tous les types de procedure de tri par cases et constituent une procedure fiable de tri, plus rapide et plus efficace que les autres procedures connues a ce jour.

Fulltext Availability:

Claims

Claim



... in that said threshold level is between approximately three percent and approximately twenty-five percent of said M number of bins,

5 In a bin **sorting** method for computing equipment by **sorting** a **group** of **records** comprised of a **group** of identifying keys and related data into a desired sequence, the steps comprising:

i\* fetching and evaluating a portion of a key, said portion having one of M possible distinct values  
ii\* determining whether said portion of a key has been previously encountered in a present iteration of said **sorting** procedure,  
iii, appending said **key** to a bin identified by said one of M possible distinct values,  
iv. repeating steps (i), (ii) and (iii) until each key in at least...said bins have been tested, and all of said keys have been appended, to said file, and  
viii. performing steps (i) through (vii) until all **keys** are **sorted**, wherein the improved method comprises the steps:  
(a) after an unsorted key is fetched and prior to determining whether said portion of a key has...

...characterized in that said adjacent key is the prior key.

7 The process of claim 5 characterized in that said adjacent key is the subsequent **key**.

- 31 --. In a bin **sorting** procedure for computing equipment by **sorting** a **group** of **records** comprised of a **group** of identifying keys and related data into a desired sequence, the steps comprising:

i. fetching and evaluating a portion of a key, said portion having one of M possible distinct values,  
ii\* determining whether said portion of a key has been previously encountered in a present iteration of said **sorting** procedure,  
iii. appending said **key** to a bin identified by said one of M possible distinct values,  
iv. repeating steps (i), (ii) and (iii) until each key in at least been appended to said file, and  
viii. performing steps (i) through (vii) until all **keys** are **sorted**, wherein the improved method comprises the steps:  
(a) performing an additional step of utilizing an auxiliary **table** to identify each said M possible distinct values actually encountered during a current iteration through said sub-group of keys, and  
(b) if...

...greater than a threshold level at the end of said current iteration, processing in a predetermined order only those bins identified by said auxiliary **table**, and failing to determine which bins have at least one appended key and which bins do not.

1 0

9 The process of claim 8...

...characterized in that said threshold level is between approximately three percent and approximately twenty-five percent of said M total of

11/5,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01241987

INFORMATION SORTING METHOD, INFORMATION SORTER , RECORDED MEDIUM ON  
WHICH INFORMATION SORTING PROGRAM IS RECORDED  
INFORMATIONSSORTIERVERFAHREN, INFORMATIONSSORTIERER, AUFGENOMMENES MEDIUM  
AUF DEM DAS INFORMATIONSSORTIERPROGRAMM AUFGENOMMEN IST  
PROCEDE DE TRIAGE D'INFORMATIONS, TRIEUR D'INFORMATIONS, SUPPORT ENREGISTRE  
SUR LEQUEL LE PROGRAMME DE TRIAGE D'INFORMATIONS EST ENREGISTRE

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1102181 A1 010523 (Basic)

WO 200075809 001214

APPLICATION (CC, No, Date): EP 2000931688 000602; WO 2000JP3623 000602

PRIORITY (CC, No, Date): JP 99158497 990604; JP 99171723 990617; JP

99193141 990707

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1102181 A1

When a general-purpose search service is used, a number of pieces of  
information searched according to a keyword input by a user is merely  
displayed. If there are a number of search results, it is difficult to  
learn the content of the search result.

A clustering module 3 acquires a plurality of search results searched  
by a general-purpose search service 1, performs a clustering process to  
the search results, and displays the clustering result. Also arranged is  
a converter module 2 which converts the search result provided by the  
search service 1 into a format that is processed by the clustering  
module.

ABSTRACT WORD COUNT: 103

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010207 A1 International application. (Art. 158(1))

Application: 010207 A1 International application entering European  
phase

Application: 010523 A1 Published application with search report

Examination: 010711 A1 Date of request for examination: 20010514

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200121	1465
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SPEC A	(English)	200121	11781
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Total word count - document A	13246
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Total word count - document B	0
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Total word count - documents A + B	13246
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INFORMATION SORTING METHOD, INFORMATION SORTER , RECORDED MEDIUM ON  
WHICH INFORMATION SORTING PROGRAM IS RECORDED  
INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION documentsorter 333 may determine a common feature  
referencing the synonymous feature dictionary for the presence of any  
synonym. When there is a synonym, the document **sorter** 333 may include

the corresponding document into the same cluster .

The document sort result memory 334 stores the content sorted by the document sorter 333. The output controller 335 reads the content of the document sort result memory 334, and displays the content on the...

11/5,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01139330

METHOD AND APPARATUS FOR RETRIEVING, ACCUMULATING, AND SORTING  
TABLE-FORMATTED DATA

VERFAHREN UND GERAT ZUM WIEDERBESCHAFFEN, ZUSAMMENFASSEN UND SORTIEREN  
TABELLENFORMATIERTEN DATEN

PROCEDE ET DISPOSITIF DE RECUPERATION, DE STOCKAGE ET DE TRIAGE DE DONNEES  
FORMATEES EN TABLEAUX

PATENT ASSIGNEE:

Furusho, Shinji, (2957550), Court House Kikuna 804, 1101-7, Matsumi-cho  
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LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 1136918 A1 010926 (Basic)  
WO 200010103 000224

APPLICATION (CC, No, Date): EP 99935113 990809; WO 99JP4300 990809

PRIORITY (CC, No, Date): JP 98227278 980811; JP 98338133 981127

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: G06F-017/30 ; G06F-019/00

ABSTRACT EP 1136918 A1

This invention provides a method and apparatus for searching for and tabulating table-format data that not only has the functions of a conventional data table but also greatly increases the speed of searching for and tabulating large amounts of data. The method for searching for and tabulating table-format data represented as an array of records including fields containing field values for each field according to the present invention comprises: keeping in a storage device, a value control table containing field values in the order of field value numbers corresponding to field values belonging to a specific field, and a field value number- specifying information array containing information that specifies the field value numbers in the order of records, acquiring from the field value number- specifying information array the field value number corresponding to the specific record, and obtaining from the field values stored in the value control table the field value corresponding to the field value number thus acquired.

ABSTRACT WORD COUNT: 160

NOTE:

Figure number on first page: 5

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010926 A1 Published application with search report

Application: 20000419 A1 International application. (Art. 158(1))

Examination: 010926 A1 Date of request for examination: 20010308

Application: 20000419 A1 International application entering European  
phase

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	200139	3209
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SPEC A	(English)	200139	17056
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Total word count - document A	20265
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Total word count - document B	0
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Total word count - documents A + B 20265

METHOD AND APPARATUS FOR RETRIEVING, ACCUMULATING, AND SORTING  
TABLE-FORMATTED DATA  
INTERNATIONAL PATENT CLASS: G06F-017/30 ...

... G06F-019/00

...SPECIFICATION counts 14 of the aforementioned value control table  
corresponding to the aforementioned field values.

Next, the field values ("female" and "male") within the array of **field**  
values 11 are **sorted** according to a stipulated basis. Naturally, at  
the time of this sort, the array of counts 14 must also be reordered with  
the **sorting** of the array of **field** values 11.

Moreover, **set** the start position in the array of start positions 13  
of the value control table. This start position is found as the  
cumulative total of...

11/5,K/4 (Item 4 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01117664

Sorting system and method  
Sortierungssystem und Methode  
Systeme et methode de tri  
PATENT ASSIGNEE:

Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo  
101-8010, (JP), (Applicant designated States: all)

INVENTOR:

Arakawa, Hiroshi, 3871-1-201, Totsukacho, Totsuka-ku, Yokohama-shi, (JP)  
Yamamoto, Akira, 5-61, Wakamatsu-6-chome, Sagamihara-shi, (JP)  
Honma, Shigeo, 201-18, Yahagi, Odawara-shi, (JP)  
Ohata, Hideo, 1-33-402, Jonan-3-chome, Fujisawa-shi, (JP)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 978782 A1 000209 (Basic)

APPLICATION (CC, No, Date): EP 99114942 990730;

PRIORITY (CC, No, Date): JP 98219253 980803

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-007/36

ABSTRACT EP 978782 A1

A **sorting** system includes a plurality of input nodes (100), each of  
which **sorts sorting** target data distributed and stored in input local  
disks (200). An internally **sorted** result is stored as a plurality of  
**sorted** strings in a shared disk (500) connected between the input node  
(100) and output node (300). Upon reception of a merge instruction from  
all input nodes (100), the output node (300) reads the **sorted** string  
from the shared disk (500) and merges it and outputs a whole **sorted**  
result of all input data to an output local disk. In a process of  
obtaining a whole **sorted** result of all input data through parallel  
processing by a computer system constituted of a plurality of computers  
(nodes), a time to **sorting** input data can be shortened.

ABSTRACT WORD COUNT: 131

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 020619 A1 Date of dispatch of the first examination  
report: 20020503

Application: 20000209 A1 Published application with search report

Examination: 20000426 A1 Date of request for examination: 20000301

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200006	1224
SPEC A	(English)	200006	11610
Total word count - document A			12834
Total word count - document B			0
Total word count - documents A + B			12834

Sorting system and method  
INTERNATIONAL PATENT CLASS: G06F-007/36

...ABSTRACT A1

A **sorting** system includes a plurality of input nodes (100), each of which **sorts sorting** target data distributed and stored in input local disks (200). An internally **sorted** result is stored as a plurality of **sorted** strings in a shared disk (500) connected between the input node (100) and output node (300). Upon reception of a merge instruction from all input nodes (100), the output node (300) reads the **sorted** string from the shared disk (500) and merges it and outputs a whole **sorted** result of all input data to an output local disk. In a process of obtaining a whole **sorted** result of all input data through parallel processing by a computer system constituted of a plurality of computers (nodes), a time to **sorting** input data can be shortened.

...SPECIFICATION plurality of records each including one or a plurality of keys, in a certain order (e.g., ascending or descending order) in accordance with the **keys**.

In a **sorting** process for a relatively small amount of input data ( **collection of records** ), a computer writes given input data in a buffer of a computer memory, refers to and compares keys of respective **records** to rearrange the **records** and obtain a sorted result. Such a sorting process which uses only the buffer of a computer memory as data storage region is called internal...internal sorting buffer 110 of each input node 100. The sorting target data is a collection of records each including one or a plurality of **keys** to be used for a **sorting** process. In this system, the final sorted result is stored in the output local disk 400 of the output disk 300.

Next, the sorting process...record stored in the buffer 810 is determined in accordance with the predetermined node decision rule. At each determined output node, records in the internal **sorting** buffer are classified into **record groups corresponding** to determined output nodes to rearrange the **records** in each classified **record group** in accordance with the predetermined **sorting** rule. If only one output node is determined, **records** are not classified and only the internal sorting process is performed.

With the above processes, the data read into the buffer 810 is classified into...

11/5,K/5 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01004407

Local sorting of downloaded tables  
Lokale Sortierung von heruntergeladenen Tabellen  
Triage local des tableaux telecharges  
PATENT ASSIGNEE:

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INVENTOR:

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Read, Matthew Charles et al (47911), Venner Shipley & Co. 20 Little  
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PATENT (CC, No, Kind, Date): EP 905636 A2 990331 (Basic)  
EP 905636 A3 991208

APPLICATION (CC, No, Date): EP 98307726 980923;

PRIORITY (CC, No, Date): US 941186 970930

DESIGNATED STATES: DE; FR; GB  
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI  
INTERNATIONAL PATENT CLASS: G06F-003/033 ; G06F-017/30

ABSTRACT EP 905636 A2

**Sorting** of table data is enhanced by providing hidden **sort** keys associated with table cell data. When table data is displayed, the hidden **sort** keys are not, but they may nevertheless be used as a basis for **sorting** table information. Thus table data may be presented in a variety of views with alternative arrangements of data, based on whether each column or row of table data is **sorted** by content or by the hidden **sort** key or **sorted** in ascending or descending order. The table may selectively be restored to its original configuration after **sorting**. **Sorting** is invoked by interpreting mouse clicks in a header cell of a table column or row.

ABSTRACT WORD COUNT: 113

NOTE:

Figure number on first page: 4

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 000705 A2 Date of request for examination: 20000511  
Application: 990331 A2 Published application (Alwith Search Report  
;A2without Search Report)  
Examination: 020814 A2 Date of dispatch of the first examination  
report: 20020627  
Change: 991124 A2 International Patent Classification changed:  
19991007

Search Report: 991208 A3 Separate publication of the search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9913	530
SPEC A	(English)	9913	3209
Total word count - document A			3739
Total word count - document B			0
Total word count - documents A + B			3739

**Local sorting of downloaded tables**

INTERNATIONAL PATENT CLASS: G06F-003/033 ...

... G06F-017/30

...ABSTRACT A2

**Sorting** of table data is enhanced by providing hidden **sort** keys associated with table cell data. When table data is displayed, the hidden **sort** keys are not, but they may nevertheless be used as a basis for **sorting** table information. Thus table data may be presented in a variety of views with alternative arrangements of data, based on whether each column or row of table data is **sorted** by content or by the hidden **sort** key or **sorted** in ascending or descending order. The table may selectively be restored to its original configuration after **sorting**. **Sorting** is invoked by interpreting mouse clicks in a header cell of a table column or row.

...SPECIFICATION discussed more hereinafter, it is appropriate to display a pop-up menu such as shown in Figure 5A. This permits a user to specify a **set** of options conveniently. The options include settings for the **sorting** process. If **menu** selection 1 is selected, the **table sorting** will occur by hidden **key** in an ascending order. If **menu** selection 2 is selected, the **sorting** will be by hidden **key** in a descending order. If menu selection 3 is selected, the **table** data will be sorted by the content of the column in question. If menu selection 4 is selected, the **table** will be sorted by content in a descending order. If menu selection 5 is selected, the **table** will be restored to its default condition, that is, the condition before any sorting occurred. This is done by simply replacing the existing **table** information with a stored copy of the **table** information which was stored in conjunction with step 410 of Figure 4. Menu selections 1-4 **set** flags which control the **sort**

process as described more hereinafter.

Figure 5B shows the semantics of exemplary flags used in accordance with one embodiment of the invention. In a preferred...

...640), the pop-up menu described in conjunction with Figure 5A is displayed (645). As before, the user makes a selection from the pop-up menu and the content/ **Sortkey** flag and ascending/descending flag are set (650). If a left mouse button double click is detected in the header cell (655), a check is made to see whether the **table** is sorted in ascending order for that column based on the existing value for the content/ **sort key** flag. If it is not (660-N), the ascending/descending flag will be set to ascending (655) and the **sort** will occur. If the **table** is already sorted in ascending order (660-Y), the ascending/descending flag will be toggled to the descending state (670) before the sort occurs.

Figure...

11/5,K/16 (Item 16 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00326950

Sorting method with extended collation functions.

Sortiervverfahren mit erweiterten Kollationierfunktionen.

Procede de triage a fonctions d'interclassement etendues.

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB;IT)

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Yoshii, Akio, 4-26-2 Chitosedai, Setagaya-ku Tokyo 157, (US)

LEGAL REPRESENTATIVE:

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Intellectual Property Department Hursley Park, Winchester Hampshire

SO21 2JN, (GB)

PATENT (CC, No, Kind, Date): EP 317530 A2 890524 (Basic)

EP 317530 A3 910502

APPLICATION (CC, No, Date): EP 88850344 881014;

PRIORITY (CC, No, Date): US 121465 871117

DESIGNATED STATES: DE; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-007/22

CITED REFERENCES (EP A):

IBM PUBLICATION SH 18-0016-0; "OS/VS sort/merge program-kanji/chinese RPQ reference no. 7F0094 program description and operation manual"

IBM TECHNICAL DISCLOSURE BULLETIN, vol. 19, no. 8, January 1977, page

2822, New York, US; J.C. BYRUM et al.: "Numeric field compare

algorithm";

ABSTRACT EP 317530 A2

A method and means for extending the collation functions of a **sorting** program ( **SORT** ) enable the program to permute, combine, or filter input records having collating characteristics that are not recognized by the **SORT** program. The extension includes provision of an extended function support program (EFS) that can be invoked by and concurrently executed with the **sorting** program. The EFS program is provided with a modality for modifying control statements received by the **SORT** program but executable only against records having the non-recognized collating characteristics. The EFS program modifies such control statements to a form executable by the **SORT** program. The EFS program also is provided with the capability of modifying the collating characteristic fields of records which are to be processed by the **SORT** program, the modification resulting in the provision for the records of counterpart collating characteristics recognized by the **SORT** program. The **SORT** program is thereby enabled to **SORT** /MERGE input strings of records with non-recognized collating characteristics into output strings including such records. The EFS program is also invoked by the **sorting** program to

perform conditional filtration of input records having non-recognized collating characteristics, which enables the **Sort** program to assemble an output list of filtered records with non-recognized characteristics. This permits the **Sort** program to perform INCLUDE/OMIT functions on records with non-recognized collating characteristics.

ABSTRACT WORD COUNT: 222

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 890524 A2 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 891102 A2 Date of filing of request for examination:  
890906  
Change: 900228 A2 Representative (change)  
Search Report: 910502 A3 Separate publication of the European or  
International search report  
Change: 930324 A2 Representative (change)  
Examination: 931118 A2 Date of despatch of first examination report:  
930930  
Withdrawal: 940810 A2 Date on which the European patent application  
was deemed to be withdrawn: 940211

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	778
SPEC A	(English)	EPABF1	12460
Total word count - document A			13238
Total word count - document B			0
Total word count - documents A + B			13238

Sorting method with extended collation functions.

INTERNATIONAL PATENT CLASS: G06F-007/22

...ABSTRACT A2

A method and means for extending the collation functions of a **sorting** program ( **Sort** ) enable the program to permute, combine, or filter input records having collating characteristics that are not recognized by the **Sort** program. The extension includes provision of an extended function support program (EFS) that can be invoked by and concurrently executed with the **sorting** program. The EFS program is provided with a modality for modifying control statements received by the **Sort** program but executable only against records having the non-recognized collating characteristics. The EFS program modifies such control statements to a form executable by the **Sort** program. The EFS program also is provided with the capability of modifying the collating characteristic fields of records which are to be processed by the **Sort** program, the modification resulting in the provision for the records of counterpart collating characteristics recognized by the **Sort** program. The **Sort** program is thereby enabled to **Sort** /MERGE input strings of records with non-recognized collating characteristics into output strings including such records. The EFS program is also invoked by the **sorting** program to perform conditional filtration of input records having non-recognized collating characteristics, which enables the **Sort** program to assemble an output list of filtered records with non-recognized characteristics. This permits the **Sort** program to perform INCLUDE/OMIT functions on records with non-recognized collating characteristics. ...

...SPECIFICATION called to supplement the extraction process by translating data in control fields containing collating characteristics foreign to the sorting program into collating characteristics recognized by **Sort** 21. Hereinafter, control fields containing collating characteristics recognized and translated by the EFS are referred to as "EFS control fields", and the untranslated data as "EFS characteristics". The translated ...and/or filtered records 114, deletes the internal records used by the S/M module 25, and performs the output string processing. The execution of **Sort** 21 terminates when the program closes data sets, releases storage, and returns control to the calling program or system. EFS 22 is involved in the termination phase by major calls 4 and 5... major call 1 processing in step 210.



Refer now to Table III for an understanding of major call 1 processing. Prior to making the call, **SORT** sets the action code field 142 of the EIPL 40 to zero indicating major call 1 to the EFS program. This code requests EFS to return the VRL 42 and...Major call 3 also provides logic to INCLUDE or OMIT records with EFS-recognized collating characteristics using the EFS02 exit. In preparation for the call, **SORT** sets the EIPL field 142 to 8, denoting major call 3, and sets the addresses to the record lengths list and extract buffer offsets in the appropriate EIPL fields. **SORT** then flags the type of application in effect and the type of records being processed by setting bits 4 and 5 and bit 7, respectively, of the information flags in EIPL field 160. Major call 3 is executed...

11/5,K/18 (Item 18 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00312507

A method of facilitating computer sorting .  
Verfahren zur Vereinfachung des Sortierens mit dem Rechner.  
Procede pour faciliter le triage par ordinateur.

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 294950 A2 881214 (Basic)  
EP 294950 A3 910102

APPLICATION (CC, No, Date): EP 88304517 880518;

PRIORITY (CC, No, Date): CA 539491 870611

DESIGNATED STATES: DE; FR; GB; NL; SE

INTERNATIONAL PATENT CLASS: G06F-007/24 ; G06F-017/27

CITED PATENTS (EP A): US 3611316 A; EP 217174 A

CITED REFERENCES (EP A):

PATENT ABSTRACTS OF JAPAN, vol. 10, no. 229 (P-485) 2285 , 8th August  
1986; & JP-A-61 062 163 (TOSHIBA CORP.) 31-03-1986  
PATENT ABSTRACTS OF JAPAN, vol. 7, no. 2 (P-166) 1147 , 7th January 1983;  
& JP-A-57 162 018 (FUJITSU K.K.) 05-10-1982  
HEWLETT-PACKARD JOURNAL, vol. 35, no. 9, September 1984, pages 31-35,  
Amstelveen, NL; H. WILSON et al.: "Designing software for the  
international market";

ABSTRACT EP 294950 A2

A method of facilitating the alphabetical dictionary **sorting** , by computer, of words based upon characters from a multilingual alphabet, especially the repertoire of characters defined in the new standard alphabet known as ISO 8859/1. This invention uses an encoding scheme (33) to determine the language dependent **sort** orders for the characters defined in ISO 8859/1. This encoding scheme removes the dependency of **sorting** on the character set's internal collating representation. This method allows the same **sorting** software to support many (if not all) of the languages supported by the alphabet. By storing the language dependent **sort** orders as data files (36), the **sorting** software is immune to the user's language and hence is highly portable. The number of languages supported is directly proportional to the number of data files available.

ABSTRACT WORD COUNT: 134

LEGAL STATUS (Type, Pub Date, Kind, Text):

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;A2without Search Report)

Search Report: 910102 A3 Separate publication of the European or

# International search report

Change: 910102 A2 Obligatory supplementary classification (change)  
 Examination: 910424 A2 Date of filing of request for examination: 910221  
 Change: 910904 A2 Representative (change)  
 Examination: 930616 A2 Date of despatch of first examination report: 930429  
 \*Assignee: 940629 A2 Applicant (transfer of rights) (change):  
 NORTHERN TELECOM LIMITED (217325) World Trade Center of Montreal, 380 St. Antoine Street West, 8th Floor Montreal, Quebec H2Y 3Y4 (CA) (applicant designated states: DE;FR;GB;NL;SE)  
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 Change: 950222 B1 Representative (change)  
 Oppn None: 951227 B1 No opposition filed  
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LANGUAGE (Publication,Procedural,Application): English; English; English

## FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPBBF2	927
CLAIMS B	(English)	EPBBF2	849
CLAIMS B	(German)	EPBBF2	811
CLAIMS B	(French)	EPBBF2	876
SPEC A	(English)	EPBBF2	5255
SPEC B	(English)	EPBBF2	5302
Total word count - document A			6182
Total word count - document B			7838
Total word count - documents A + B			14020

## A method of facilitating computer sorting .

INTERNATIONAL PATENT CLASS: G06F-007/24 ...

... G06F-017/27

## ...ABSTRACT A2

A method of facilitating the alphabetical dictionary **sorting** , by computer, of words based upon characters from a multilingual alphabet, especially the repertoire of characters defined in the new standard alphabet known as ISO 8859/1. This invention uses an encoding scheme (33) to determine the language dependent **sort** orders for the characters defined in ISO 8859/1. This encoding scheme removes the dependency of **sorting** on the character set's internal collating representation. This method allows the same **sorting** software to support many (if not all) of the languages supported by the alphabet. By storing the language dependent **sort** orders as data files (36), the **sorting** software is immune to the user's language and hence is highly portable. The number of languages supported is directly proportional to the number of...

## ...SPECIFICATION normal sorting packages can be used.

The present invention permits language dependent sorting to be handled by language independent software. This means that the same **set** of software is portable to support **sorting** when **different** languages have to be supported. The language dependent **sort** orders are loaded from data files at run time. The sort orders are created by a utility program which creates the data for the three encoding **tables** ( **tables** 120, 126, and 131 of Figures 1B, 2B, and 3B respectively) used by the encoding software (Appendix A).

There are two encoding tables (an alphanumerical...120, Fig. 1B, accent priority encoding table 126, Fig. 2B, and non-alphanumerical character encoding table 131, Fig. 3B). The use of data files 36 **separates** the **sorting** software from the language dependency of the **sort** orders and allows the use of one **set** of **sorting** software.

Figures 7 and 8 are pictorial representations of the actual encoding of an arbitrary sample word or data "BCHAE." shown at 46. The encoded...

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There are two encoding tables (an alphanumerical...120, Fig. 1B, accent priority encoding table 126, Fig. 2B, and non-alphanumerical character encoding table 131, Fig. 3B). The use of data files 36 **separates** the **sorting** software from the language dependency of the **sort** orders and allows the use of one **set** of **sorting** software.

Figures 7 and 8 are pictorial representations of the actual encoding of an arbitrary sample word or data "BCHAE." shown at 46. The encoded...

11/5,K/23 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00891388 \*\*Image available\*\*

**METHOD AND APPARATUS FOR DYNAMICALLY FORMATTING AND DISPLAYING TABULAR DATA IN REAL TIME**

**PROCEDE ET DISPOSITIF DE FORMATAGE ET D'AFFICHAGE DYNAMIQUE DE DONNEES TABULAIRES EN TEMPS REEL**

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HECKER Gary A (et al) (agent), The Hecker Law Group, Suite 2300, 1925 Century Park East, Los Angeles, CA 90067, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US29486 20010920 (PCT/WO US0129486)

Priority Application: US 2000234015 20000920

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP

KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD

SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 31833

English Abstract

Embodiments of the invention upon current systems by allowing users to dynamically generate and repeatedly modify the appearance of any set of

tabular data. When the system obtains input relating to formatting the table, the appearance of the table is dynamically modified so the users can instantaneously view any changes to the table caused by the input (e.g., WYSIWYG). Users provide input (e.g. layout information) that relates to various types of pivot operations, **sorting** operation, and/or merging operations performed on the table. The user may, for example, select a certain field and then initiate a pivot operation using the selected field. The system is configured in accordance with one embodiment of the invention so that the layout information is stored independent of and/or associated with the table data.

#### French Abstract

Par certains modes de realisation, l'invention appliquee aux systemes courants permet aux utilisateurs de generer dynamiquement et de modifier de facon repetitive l'aspect d'un ensemble quelconque de donnees tabulaires. Lorsque le systeme recupere des entrees se rapportant au formatage de la table, l'aspect de la table se modifie de facon dynamique de facon que les utilisateurs puissent visualiser instantanement toutes les modifications apportees a la table en raison de l'entree (par exemple WYSIWYG). Les utilisateurs fournissent de l'entree, par exemple de l'information de mise en page, se rapportant a divers types d'operations de rotation, d'operations de tri et/ou d'operations de fusion realisees sur la table. L'utilisateur peut notamment selectionner une certaine zone puis lancer une operation de rotation utilisant la zone selectionnee. Le systeme est configure en fonction d'un mode de realisation de l'invention de facon que l'information de mise en page soit conservee en independance des donnees de la table et/ou en association avec ces donnees.

Legal Status (Type, Date, Text)

Publication 20020328 A2 Without international search report and to be republished upon receipt of that report.

Examination 20021017 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

#### English Abstract

...to the table caused by the input (e.g., WYSIWYG). Users provide input (e.g. layout information) that relates to various types of pivot operations, **sorting** operation, and/or merging operations performed on the table. The user may, for example, select a certain field and then initiate a pivot operation using...

#### Detailed Description

... the fields and attributes on which to pivot the resulting sub-tables of records, reducing redundant information in each of the sub-tables; (b) the **fields** and attributes by which to **sort** the records in each sub-table; (c) the fields and attributes that should not be displayed in the published output; (d) the display sequence of...

...a pivot-by-pivot basis. This layout specification is performed and stored on a family-by-family basis so that not only fields but also **category** -specific attributes can be used to define the pivoting, **sorting**, display sequence, and other pivot-specific sorting and display characteristics for each family.

Multiple pivots of the same type can be nested, while pivots of...

...the participating fields and attributes. As each field or attribute is hidden or used to pivot or sort, and as each of the pivot-specific **sorting** and display characteristics are **set**, the **corresponding table** layouts for the family are automatically generated by the system and the preview display updated in real time, providing instant interactive feedback and allowing tweaking, tuning, and iterative refinement of the **table** layout of each

File 275:Gale Group Computer DB(TM) 1983-2003/Aug 14  
     (c) 2003 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Aug 14  
     (c) 2003 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Aug 14  
     (c) 2003 The Gale Group  
 File 16:Gale Group PROMT(R) 1990-2003/Aug 14  
     (c) 2003 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
     (c) 1999 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2003/Aug 14  
     (c)2003 The Gale Group  
 File 624:McGraw-Hill Publications 1985-2003/Aug 13  
     (c) 2003 McGraw-Hill Co. Inc  
 File 15:ABI/Inform(R) 1971-2003/Aug 14  
     (c) 2003 ProQuest Info&Learning  
 File 647:CMP Computer Fulltext 1988-2003/Jul W3  
     (c) 2003 CMP Media, LLC  
 File 674:Computer News Fulltext 1989-2003/Aug W2  
     (c) 2003 IDG Communications  
 File 696:DIALOG Telecom. Newsletters 1995-2003/Aug 14  
     (c) 2003 The Dialog Corp.  
 File 369:New Scientist 1994-2003/Aug W1  
     (c) 2003 Reed Business Information Ltd.  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc  
 File 610:Business Wire 1999-2003/Aug 15  
     (c) 2003 Business Wire.  
 File 613:PR Newswire 1999-2003/Aug 15  
     (c) 2003 PR Newswire Association Inc

Set	Items	Description
S1	0	ZINGWARE
S2	67	SORT???(5N)FIELD? ?(5N) (CATEGORY OR CATEGORIES)
S3	48	RD (unique items)
S4	45	S3 NOT PY=2001:2003

4/9/42 (Item 5 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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00660170 93-09391

**Commence PIM improves on Current with better usability**

Marshall, Patrick

InfoWorld v15n2 PP: 71-75 Jan 11, 1993 ISSN: 0199-6649 JRNL CODE: IFW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 3 Pages

WORD COUNT: 2766

**ABSTRACT:** Jensen-Jones Inc. has introduced Commence 1.0 in an attempt to improve on IBM's difficult-to-learn Current. Commence's enhanced interface features more attractive and logical icons and command buttons. In addition, Commence streamlines procedures for creating categories, designing fields, and linking data. Its most impressive feature is a set of agents, which are supercharged macros that allow the user to automate virtually any task and insert not only time-contingent but also data-contingent triggers for launching tasks. While Commence's import capabilities are strong, supporting ASCII, DBF, and DIF formats, the program has one significant weakness: 2 Commence databases cannot be merged. Manuals accompanying the product are thorough, attractively designed, well indexed, and amply illustrated. Online help is also thorough. Documentation is rated excellent, and ease of learning and ease of use are rated very good. Although Commence is one of the most expensive Windows personal information managers, it is one of the most powerful available.

**TEXT:** Revamping IBM's customizable but difficult-to-learn Current, Jensen-Jones offers Commence 1.0. Commence has retained Current's customizability, but Jensen-Jones has given the program a "kinder, gentler" interface that significantly enhances its usability.

Like Current, Commence comes with a half-dozen applications--phone book, calendar, to-do list, phone log, expense report, and the like.

And like Current, Commence lets you create new applications, using up to 14 types of data fields, which you can lay out just as you like. You can even customize links between fields.

Commence's enhanced interface, however, features more attractive and logical icons and command buttons. Also, Commence streamlines procedures for creating categories, designing fields, and linking data. Last but not least, Commence's most impressive new feature is its set of Agents, which are supercharged macros that allow you to automate virtually any task and insert not only time-contingent but also data-contingent "triggers" for launching tasks.

The end result is that Commence is much easier to learn and use than Current was. At the same time, however, the program has lost none of its flexibility and customizability. If you're a user who has looked in vain for a personal information manager that suits your way of working, Commence is right up your alley. If the program doesn't already work the way you want it to, with a little effort you can most likely fine-tune Commence so that it performs to your specifications.

We scored this review using criteria that we developed in our June 15 comparison (page 69) of personal information managers (PIMs).

**PERFORMANCE:**

**Data management:** Whether you're working with one of Commence's predefined applications (called categories) or with one you've created yourself, there are four types of views from which you can select: report, book, calendar, and Gantt chart. The report view is a standard columnar listing of data and is available for every application. Commence's other views are available for data of the appropriate type: The book view, for example, presents data in the format of an address book and is available for phone and address listings. The Gantt chart view displays data-related data in a time-line

format and is available for both the to-do list and the calendar

The report and book views are modifiable to the extent that you can select what fields will appear in each view and how the items will be sorted.

And when you select any item in a view by double-clicking on it, the item's detail screen, which contains every data field assigned to the category, will be displayed. Thus, you may list name, company, and phone number in your phone book report view. But if you double-click on a name you'll get all of the record's information, including its address, notes, and whatever other fields you've attached.

Commence makes it easy to connect the data in two categories, and many of the program's prebuilt categories already contain connection fields. The phone book category, for example, has a number of connections, including one to the to-do category. So, when you assign a to-do to a person, it will automatically appear in the to-do field of that person's record in the phone book category.

When you're using a connected field, you can even summon a list of all the possible connections. For example, when you assign the task to a person, you can hit the plus sign, and a list of all the people in the phone book will pop up. Select the one (or ones) you want, hit Enter, and you're set. To create a new connection, simply select Connections from the Category menu and specify the two categories that you want to link. A new, scrollable connected field will appear in each category.

You can create up to 100 categories in each Commence database, and each category can contain up to 50 fields from among 14 different field types: calculation, check box, currency, data file, date, Excel cell, image, name, number, radio group, sequence number, telephone, text, and time. Each category can hold up to 8,000 items, which should be more than enough for most individual users. In addition to the sheer number of available fields that it offers, Commence also enables you to attach bit-mapped graphic images to **fields**.

You can see each **category** in a variety of views and **sort** data in views by up to four criteria at once. You can also "filter," or search, any category by up to four field values, setting criteria and applying Boolean operators at each stage.

If the field you select for one of the four filters is a currency value, you can specify a figure and indicate that you want all entries where the record's value is equal to, less than, greater than, or not equal to that figure. If you select a date field for filtering, Commence automatically gives you a form where you can enter a date and specify that records match the date or have dates that occur before or after the specified date. You can even use wild cards in filtering when you filter by name, text, or telephone fields.

Constructing complex filters involves many steps, but it is extremely easy to follow and produces powerful results. If you want to perform a single-field search, you can select Simple Filter from the Options menu. However, you will still have to use a complex routine for specifying terms. There is no simple way to, for example, search all items for those containing the word "Jones."

In light of the complexity of Commence's search routines, the program's capability to save filtering arguments is especially welcome. When you apply a filter, you're actually creating a new view, which you can save and even place on the toolbar. When you subsequently call up that view, it will display any items that fit the filter argument, including new items added since you last saved the view.

Commence's data handling is far and away the most flexible and powerful of the PIMs in this category, rising above PackRat and Instant Recall. We rate data management excellent.

Calendar and scheduling capabilities: Commence's daily scheduler which is the default calendar view, displays a scrollable window that shows 9 hours

of your day at a glance.

In addition, there is a timeline that runs alongside, displaying which blocks of time are occupied from 6 a.m. until midnight.

When you enter a new appointment, you can assign each appointment to any of eight "types," the eighth of which is "other." Each appointment type--from "meeting" to "vacation" to "phone call" --has its own color code, and you can call a color legend whenever you forget which color stands for what.

There are also connected fields available that you can use to link any appointment to a person, project, to-do, date appointment, note, or conference room.

Commence is particularly adept at scheduling recurring appointments. You can schedule items to occur daily, weekly, every second Sunday of the month, or just about any other period you want. And Commence's procedure for making such appointments is surprisingly easy and intuitive to use.

Commence allows you to attach alarms to any appointment, though you cannot individually select a lead time for the alarm.

The program will alert you if an alarm passes while the program is inactive, but only if you've selected the appropriate check box in one of the submenu dialog boxes. However, this is not checked as a default, and until users discover this, they are vulnerable to missing crucial appointments.

Despite Commence's power in scheduling capabilities, it is unexpectedly weak in providing views of your schedule. The program purports to provide daily, weekly, and monthly views, but the only view that actually provides any information about appointments is the daily view. The weekly and monthly views display only color-coded time bars.

If you can't see appointment details immediately in the weekly and monthly views, however, you can get to them fairly quickly. Simply clicking on the time block you're interested in will pop up that item's detail screen. And if you click in an unoccupied block, a blank form pops up that you can use to enter a new item. We rate calendar and scheduling capabilities good.

Reporting: Jensen-Jones has designed attractive formats for printing reports, and the program provides moderately strong controls for adjusting those formats. You can, of course, print any view you can display on-screen, and the program lets you select the margins and choose whether to print the view only, the view and item details, or just the item details. For any report, you can also select fonts from any of your installed Windows fonts.

If you want to print a more customized view of your data--such as selecting which data fields to include in the report --you'll have to create a customized view that contains what you want. You can't perform last-minute selections at print time.

Commence does a better job of printing weekly and monthly calendars than it does of displaying them on-screen. In addition to an attractive daily schedule, which is printed with three small monthly calendars across the top for reference, you can choose to print weekly and monthly grids that list the time and name fields of each appointment. We rate reporting good.

Other: In addition to applications for listing contacts and scheduling appointments, Commence offers a variety of other preconstructed applications. Among the most useful are Commence's to-do list, its telephone log, and its dialer. In addition, the program provides an expense accounting category.

Apart from these preconstructed applications, Commence's most significant "other" feature is the program's capability for generating new applications.



In addition, Commence supports Windows' Dynamic Data Exchange (DDE), which enables you to shell to a Windows word processor, inserting Commence data into the appropriate locations in preconstructed templates. You can even have the program automatically log the fact that you've printed a letter. There is, however, no automatic mail-merge utility for processing multiple records. But you can create a field for tagging an item that you want to include in the mail merge. You can then write an Agent that groups tagged items into a view and then performs the mail merge. Once you have set this up once, you don't have to set it up again.

Commence's import capabilities are also strong, supporting ASCII, DBF, and DIF formats. But the program has one significant weakness: You can't merge two Commence databases. Instead, you have to export from one and then import it into the other.

On the plus side, Commence does provide a utility that makes it quick and easy to back up and restore Commence data files.

There is no network version of Commence available, although Jensen-Jones expects to release one during the first quarter of this year. Certain features will need to be added besides just network support, however, in order to make it an effective multiuser program. For example, the current version lacks password protection and is limited to only 8,000 items per category in a database--limitations that will be very confining for network users. We rate other features good.

#### DOCUMENTATION:

Jensen-Jones offers outstanding documentation. The manuals are as thorough as they are attractively designed, and they are well indexed and amply illustrated.

In addition to a combined users' guide/reference manual, Jensen-Jones provides an installation booklet and a slim manual titled Commence for IBM Current Users that details the differences between the two programs. However, rather than indicating where Current and Commence differ, the manual recapitulates how Commence works without making comparisons with Current. The only place where such comparisons are made is in the listing of menu commands.

Commence's on-line help is also thorough, and in addition to being context sensitive and searchable, it offers hypertext capabilities to provide you with more detailed explanations of various topics. We rate documentation excellent.

#### EASE OF LEARNING:

Commence is a powerful and complex program that is quite easy to jump into. This is mostly due to Commence's clean, icon-driven design, coupled with a status line that keeps a running account of the function of any icon or button your cursor passes over. In short, if you have forgotten what an icon or command button does, you can obtain an immediate answer.

Commence also does a superior job of leading users through complex operations, such as defining Agents and constructing new categories. At nearly every step of the process, the program offers multiple-choice selections, which eliminates confusion about what the process requires.

Many users will find the program easy enough to learn that they won't need to use Commence's tutorial--which consists of a chapter in the manual that leads you through performing operations on a supplied sample database--but it's there for those who do need a bit more help. We rate ease of learning very good.

#### EASE OF USE:

Commence has made notable improvements over Current in ease of use. The most significant improvement is the program's Agent technology, which is essentially a macro with conditional timers.

The Agents are extremely powerful. Automating simple tasks, such as printing a schedule every day at 8 a.m., is a snap. But you can also have Agents perform actions when certain other types of database conditions are met. Sample Agents offered by Jensen-Jones, for example, will print a calendar the evening before any day on which you're scheduled to travel, or fax an order to the florist for flowers to be sent to any client who places an order above, say, \$5,000.

There's even an Agent History utility, in which all triggered Agents and the actions they performed are listed, so that you can check on what was done without your help.

Commence also has an easy-to-use overall design. Potentially complex procedures have been made quite a breeze to perform. Creating new layouts for categories, for example, is shockingly simple. Click on the field and drag it anywhere you like, and there are even extended cross-hairs to help you line things up.

Similarly, Commence makes scheduling recurring appointments simpler than one would expect. When you specify a recurring item, a box pops up with seven radio buttons marked Daily, Weekdays, Weekly, Every ?th Week, ?th Day of the Month, Monthly, and Yearly. If, for example, you select "Every ?th Week," an additional box will pop up, enabling you to select which week and day from lookup tables.

There are still a few areas where Commence could be improved. Drag-and-drop rescheduling of appointments, for example, would be welcome. As it is, to change an appointment's time you have to call up the item and re-edit its detail box.

Another minor irritation is that when you pop up a legend for a calendar or Gantt chart, it covers other data. You can expand the window so that everything shows, but the program won't remember the new arrangement--therefore, you will have to go through the process every time you load up the program.

Finally, it would be helpful if the installation program took care of installing word processor macros instead of requiring users to perform the task manually. However, these are very minor points. Commence has done a very creditable job of making what is an extremely powerful program surprisingly easy to use. We rate ease of use very good.

#### SUPPORT:

Support policies: Jensen-Jones offers free, but not toll-free, technical support Monday through Friday from 9 a.m. to 6 p.m. Eastern time. There is also a 60-day money-back guarantee and a forum on CompuServe. In addition, the company publishes a newsletter that is scheduled to appear three times a year, as well as technical notes that are distributed on an ad hoc basis. We rate support policies good.

Technical support: Each time we called technical support, the staff was unavailable and we had to leave a message. However, our calls were returned within a few hours. We found the staff to be well trained and knowledgeable about the product, as well as friendly and ready to help. All of our questions were answered quickly and concisely. We rate technical support good.

#### VALUE:

At \$395, Commence is among the most expensive Windows personal information managers. However, you're getting what you pay for, as Commence is also one of the most powerful PIMs available.

Priced the same as PackRat, from Polaris Software, Commence offers users an excellent alternative to PackRat's reliance on well-designed but non-customizable applications. With its capability to generate new applications and provide up to 14 different field types for users to select from, Commence provides more customizability than any other PIM on the market. Commence is a good value.

4/3,K/1 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02387583 SUPPLIER NUMBER: 60963243 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Metacode Introduces Tools for Enriching Content. (Product Announcement)**

Seybold Report on Internet Publishing, 40

March, 2000

DOCUMENT TYPE: Product Announcement

ISSN: 1090-4808

LANGUAGE:

English RECORD TYPE: Fulltext

WORD COUNT: 880 LINE COUNT: 00075

... t necessarily mean limiting the scheme to a handful of broad categories. One of Metacode's customers, for example, is using Metatagger to sift and **sort** material according to 110,000 **categories** in the medical **field**, in contrast with just six big buckets that it used before.

Metacode has been selling Metatagger directly, but it hopes to sell it through OEM...

4/3,K/2 (Item 2 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02252331 SUPPLIER NUMBER: 53390967 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Business Intelligence at Top Speed. (Industry Trend or Event) (Abstract)**

Kim, Won

Intelligent Enterprise, 1, 4, 38(1)

Dec 15, 1998

DOCUMENT TYPE: Abstract

LANGUAGE: English

RECORD TYPE: Fulltext;

Abstract

WORD COUNT: 3155 LINE COUNT: 00265

... join the tables. You'll be able to process the query faster by grouping or presenting the query result against a table in a certain **field**'s **sort** order with the table already **sorted** in the **field**.

This **category** also includes the use of summary tables or snapshots instead of the original tables. Summary tables or snapshots are often much smaller than the original...

4/3,K/3 (Item 3 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02072496 SUPPLIER NUMBER: 19502840 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Scanning: \$149 summer price offered for Seiko Instruments' Smart Business**

**Card Reader. (Product Information)**

EDGE: Work-Group Computing Report, v8, p10(1)

June 2, 1997

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 319 LINE COUNT: 00027

... Other features allow users to add notes to the cards and search for contacts based on those notes. Cards can be saved in user-defined **categories**, and **sorted** by a **field** or multiple **fields**. They also can "drag and drop" fields from a card image to a database, and use a Smart Zoom feature to highlight areas to be...

4/3,K/4 (Item 4 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01936707 SUPPLIER NUMBER: 18288976 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Collaborative computing. (eight workgroup packages reviewed) (includes**

**related article on intranets) (Software Review) (Evaluation)**

Elliot, Elaine X.

Computer Shopper, v16, n6, p534(12)

June, 1996

DOCUMENT TYPE: Evaluation ISSN: 0886-0556 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 8019 LINE COUNT: 00676

... as well as weekly, monthly, and six-week planner calendars.

Report views have also been spruced up, and are now sortable by up to four **fields** in Gantt and report **categories** (the address-book **category** always **sorts** by name; the calendar, by date). For example, you can sort a workgroup by person, task, date due, or priority in ascending or descending order...

4/3,K/5 (Item 5 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01832169 SUPPLIER NUMBER: 16838394 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Building Notes applications. (coordinating workflow within a group or across the enterprise)**

Frank, Maurice

DBMS, v8, n3, p62(6)

March, 1995

ISSN: 1041-5173 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3937 LINE COUNT: 00319

... all authorized users, or they may be private to the user who created them.

A view's sort specification orders the documents. In addition to **sorting**, designers can categorize views using one or more **fields**. **Category fields** appear as group headers instead of repeating on each document as a column. Documents within the **category** are indented. Users can expand and collapse view outlines. The **sorted category fields** optimize query execution, because Notes does not have to scan every document to find matches in a category search. The category acts as a kind  
...

4/3,K/6 (Item 6 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01804827 SUPPLIER NUMBER: 17155740 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Tools and utilities. (1995 Database Buyer's Guide and client/server sourcebook) (Buyers Guide)**

DBMS, v8, n6, p72(29)

May 15, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 1041-5173 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 45154 LINE COUNT: 03869

... from up to 32 tables. Allows customization of every aspect of a report (layout, font size and styles, and calculations) without programming. Data can be **sorted** and grouped in up to eight **categories**. Reports can include total **fields** that summarize information for groups of records in the report, for each page, or for the entire report. Users can also define fields whose values...

4/3,K/7 (Item 7 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01791308 SUPPLIER NUMBER: 16994183 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Enhancing your Notes mail. (PC Tech: Extending Your Apps) (Column) (Tutorial)**

Kerwien, Erica

PC Magazine, v14, n12, p259(4)

June 27, 1995

DOCUMENT TYPE: Column Tutorial      ISSN: 0888-8507      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 3793      LINE COUNT: 00272

... as this phrase is consistent, it can be the criterion on which you base the macro. Here's an example of a macro that will **sort** meeting notes:

```
FIELD Categories := @If
(@Contains (@LowerCase (Subject);
"development meeting"); "Meeting
Notes";
Categories);
SELECT @All
```

Unlike when you manually created categories, the category will be created automatically if it...

**4/3,K/8      (Item 8 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01759413      SUPPLIER NUMBER: 16684017      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Arrange 2.0: flexibility, power, and complexity. (Common Knowledge's PIM)**  
**(Software Review) (Evaluation) (Brief Article)**

Schorr, Joseph

MacUser, v11, n5, p64(1)

May, 1995

DOCUMENT TYPE: Evaluation Brief Article      ISSN: 0884-0997

LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT

WORD COUNT: 511      LINE COUNT: 00041

... organize your schedule, contacts, and to-do items, Arrange's complexity and sophisticated tools would be overkill. But for those who have to organize and **sort** information that doesn't fall into the traditional **fields** and **categories** ordinary PIMs give you, Arrange is a powerful tool that lets you not only organize your schedule but also customize the way you use it.

**4/3,K/9      (Item 9 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01690804      SUPPLIER NUMBER: 15584769      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Newton shareware abounds on-line. (the top 10 most frequently downloaded programs for the Apple Newton personal digital assistant)**

Staten, James

MacWEEK, v8, n29, p14(2)

July 18, 1994

ISSN: 0892-8118      LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 671      LINE COUNT: 00061

...ABSTRACT: and enter data onto the Newton from a desktop computer. Atomic Software's \$49 NotePak replaces the Newton's to-do list by providing priority, **category**, description and due date **fields**, as well as **sorting** filters and a progress bar.

**4/3,K/10      (Item 10 from file: 275)**

DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01688545      SUPPLIER NUMBER: 15356060      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tools and utilities. (1994 Database Buyer's Guide and Client/Server Sourcebook) (Buyers Guide)**

DBMS, v7, n6, p63(29)

June 15, 1994

DOCUMENT TYPE: Buyers Guide      ISSN: 1041-5173      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 46074      LINE COUNT: 03903

... to 32 tables. Allows customization of every aspect of a report -- report layout, font size and styles, and calculations -- all without programming. Data can be **sorted** and grouped in up to eight **categories**. Reports can include total **field** that summarize information for groups of records in the report, for each page, or the entire report. Users can also define fields whose values are...

**4/3,K/11      (Item 11 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01688187      SUPPLIER NUMBER: 15548883      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Getting it together. (1,001 Tips: Workgroup Applications)**  
PC-Computing, v7, n8, p208(6)  
August, 1994  
ISSN: 0899-1847      LANGUAGE: ENGLISH      RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5207      LINE COUNT: 00385

... what if you want to assign a person to more than one category and still be able to find his or her data in a **sort**? Use the Notes **field** to type the **category** names and separate each with a space and an @ symbol. For example, if someone in your address book is a consultant, writer, and instructor, you...

**4/3,K/12      (Item 12 from file: 275)**  
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01613921      SUPPLIER NUMBER: 13901763      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tools and utilities. (software packages that help database developers prototype and design applications, query, and create help systems, among other uses) (1993 Database Buyer's Guide Special Issue) (Buyers Guide)**  
DBMS, v6, n7, p63(33)  
June 15, 1993  
DOCUMENT TYPE: Buyers Guide      ISSN: 1041-5173      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 45702      LINE COUNT: 03876

... tables. Report Builder allows customization of every aspect of a report -- report layout, font size and styles, and calculations -- all without programming. Data can be **sorted** and grouped in up to eight **categories**. Reports can include total **fields** that summarize information for groups of records in the report, for each page, or for the entire report. Users can also define fields whose values...

**4/3,K/13      (Item 13 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01581003      SUPPLIER NUMBER: 13312203      (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Field Assistant will link, track contacts. (new contact-management software from Field Integration Technology Inc.) (Brief Article) (Product Announcement)**  
Parkinson, Kirsten L.  
MacWEEK, v7, n2, p8(1)  
Jan 11, 1993  
DOCUMENT TYPE: Product Announcement      ISSN: 0892-8118      LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 289      LINE COUNT: 00024

... ship in March, include:

> Contact management. Users can store unlimited addresses, phone numbers, activities and notes for a particular company or contact. Ten user-definable fields also are available for assigning sort categories to entries.

> Scheduling. Field Assistant includes daily, weekly and monthly views of users' schedules, as well as an integrated to-do list.

Users can choose to view all activities...

4/3,K/14 (Item 14 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01506782 SUPPLIER NUMBER: 11981280 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Keep in touch with contact management software. (Software Review)

(Performer Systems Inc.'s Performer 2.3, Richmond Technologies and

Software Inc.'s The Maximizer 2.1 and DataSel Software Inc.'s Gold 1.0)

(Evaluation)

Nillson, B.A.

Computer Shopper, v12, n4, p363(5)

April, 1992

DOCUMENT TYPE: Evaluation ISSN: 0886-0556 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2316 LINE COUNT: 00177

... In DataSel, those lists are available for every field, and they may be customized however you wish. In fact, they'll have to be; default categories aren't provided.

Lists may be sorted on any field, but the program keeps its own indexes on four special fields (last name, company name, ID number, and ZIP code), allowing it to perform what...

4/3,K/15 (Item 15 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01496869 SUPPLIER NUMBER: 11732852 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Picture this! (Paradox Programmer) (Tutorial)

Smith, Brian J.

Data Based Advisor, v10, n1, p46(6)

Jan, 1992

DOCUMENT TYPE: Tutorial ISSN: 0740-5200 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2934 LINE COUNT: 00216

... this way requires some additional PAL and query work along the lines of Step 3. The way I do it is to add a new field, "Category #," to the STEP1 table; sort the ANSWER table by the "# Rented;" use a SCAN program to assign a ranking number to each category with the top category ranked #1; and use a "ChangeTo" query to transfer the rank values back into the "Category #" field in STEP1. Then I sort the STEP1 table by Category #. It turns out that the next step, the cross-tab step, arranges the CROSSTAB fields in the order it finds the Category values in the...

4/3,K/16 (Item 16 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01458400 SUPPLIER NUMBER: 11471388 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Customize your PC Magazine utilities with PATCH.COM. (includes related

articles on the .ZIF file template, PC Magazine utilities updates and the

PATCH command) (Utilities) (column) (tutorial)

Mefford, Michael J.

PC Magazine, v10, n19, p425(8)

Nov 12, 1991

DOCUMENT TYPE: tutorial ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 5188 LINE COUNT: 00380

... and a list of the states each variable can assume. Again using DR.COM as an example, if you press Enter on the PICK LIST **category** you will be given the description " **Sort field** ." The **Sort field** determines the filename characteristic according to which DR.COM sorts its file list. (DR.COM has only one pick variable; other utilities may have more...

4/3,K/17 (Item 17 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01390801 SUPPLIER NUMBER: 09684867 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Changing to a new record-keeping system; how a customized database helps one professional track invoices and expenses. (Software Solutions)**  
Kendall, Robert  
Home Office Computing, v8, n11, p28(2)  
Nov, 1990  
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1951 LINE COUNT: 00142

... fields on invoices, each record in the Invoices file also includes other expense fields necessary for tax purposes. For instance, Date and Recipient of Payment **fields** let me match expenses with receipts. A **Category field** lets me **sort** expenses by the **categories** the IRS requires, such as telephone, supplies, and office expenses. I also added a separate Date Paid field for expenses, since I sometimes receive separate ...

4/3,K/18 (Item 18 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01348620 SUPPLIER NUMBER: 08109408 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Database strategies: getting the right fit. (rethinking database design)**  
Liskin, Miriam  
Personal Computing, v14, n2, p101(6)  
Feb, 1990  
ISSN: 0192-5490 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 3618 LINE COUNT: 00268

... director every two years who changes all the categories, this design is inefficient and inconvenient.

A more serious limitation may surface as well: With each **category** in its own **field**, it is difficult or impossible to **sort** or index the entire list by **category**, as you might want to do for certain summary reports. A better design would provide just one field for the donor category, into which you...

4/3,K/19 (Item 19 from file: 275)  
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01292347 SUPPLIER NUMBER: 07152698 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Addressing a common problem. (Software Review) (Address Book Plus, version B.00) (evaluation)**  
Krasnoff, Barbara  
Personal Computing, v13, n4, p204(2)  
April, 1989  
DOCUMENT TYPE: evaluation ISSN: 0192-5490 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 999 LINE COUNT: 00073



... and first name fields, two address lines, fields for home and business phone numbers (the latter with an extra field for an extension), a birthday field, and a comments field. Two extra fields are used to sort or pull out various categories: the Codes field, which accepts up to three letters from A to J (a small window pops up whenever your cursor is on the field, allowing you to...

4/3,K/20 (Item 20 from file: 275)  
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01291625 SUPPLIER NUMBER: 07106518 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Vendor profiles: makers of personal information managers. (directory)**  
PC Week, v6, n10, p122(2)  
March 13, 1989  
DOCUMENT TYPE: directory ISSN: 0740-1604 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 2398 LINE COUNT: 00255

... System Specifications: DOS 2.1 or higher; 128K bytes RAM; partially or fully resident; networkable.  
Export: ASCII, structured.  
Import: word processor.  
Categorization Method: key words, category views, sort fields.  
Features: text retrieval, project planner, time manager, tracker, word processor, free-form database, outlining, appointment manager, contact/client manager, structured input format.  
Price: \$195.00...

4/3,K/21 (Item 21 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01289841 SUPPLIER NUMBER: 07106528 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Personal Information Managers. (Personal-Group Productivity Software Product Table) (buyers guide)**  
PC Week, v6, n10, p123(2)  
March 13, 1989  
DOCUMENT TYPE: buyers guide ISSN: 0740-1604 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT  
WORD COUNT: 2400 LINE COUNT: 00255

... System Specifications: DOS 2.1 or higher; 128K bytes RAM; partially or fully resident; networkable.  
Export: ASCII, structured.  
Import: word processor.  
Categorization Method: key words, category views, sort fields.  
Features: text retrieval, project planner, time manager, tracker, word processor, free-form database, outlining, appointment manager, contact/client manager, structured input format.  
Price: \$195.00...

4/3,K/22 (Item 22 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01281967 SUPPLIER NUMBER: 07990078  
**Informix report generator avoids SQL. (Informix QuickStart) (Structured Query Language) (product announcement)**  
Quinlan, Tom  
MIS Week, v10, n49, p37(1)  
Dec 11, 1989  
DOCUMENT TYPE: product announcement ISSN: 0199-8838 LANGUAGE: ENGLISH  
RECORD TYPE: ABSTRACT

...ABSTRACT: commands into Informix's fourth-generation programming language. A pop-up menu allows users to pull information from as many as 16 database files or **fields** and **sort** them into 256 **categories**. The program also features pull-down menus and cut and paste features. Priced at \$360, QuickStart can also be licensed for \$2,280 for up...

4/3,K/23 (Item 23 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01260741 SUPPLIER NUMBER: 07107237 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**A la cartography. (MapMaker 3.0 and GeoQuery map generators) (Software Review) (includes related article on geographic databases; another related article discusses other mapmaking systems) (evaluation)**  
Martinez, Carlos Domingo  
MacUser, v4, n12, p198(6)  
Dec, 1988  
DOCUMENT TYPE: evaluation ISSN: 0884-0997 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 3134 LINE COUNT: 00244

... which provides a sort criterion, and another field as Label, which is the on-screen Pushpin name. You can ask GeoQuery to scan the Types **field** first. This **sorts** the file into **categories** and lets you choose which to include.

MapMaker's charting data can be entered from the keyboard or imported as a text file. Category names...

4/3,K/24 (Item 24 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01251566 SUPPLIER NUMBER: 06827455 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Bring Harmony to your books. (with more than a dozen modules, Open Systems' Harmony integrated accounting program can automate an office on any budget) (Software Review) (The Price Waterhouse Report) (evaluation)**  
Dauphinais, G. William; August, Ray A.; Kneitel, Edward M.; Lee, Timothy J.  
PC Magazine, v7, n14, p327(10)  
Aug, 1988  
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4532 LINE COUNT: 00361

... profit percentage by order. Harmony's sorting capability makes this report a powerful tool for honing your marketing and pricing strategies. A combination of such **fields** as a customer, item, salesperson, and inventory **category** can serve as key **fields** for **sorting**. The Serial Item History shows postsale activity of any items with serial numbers assigned and warranty expiration dates. The Sales Commission report lists commissions earned...

4/3,K/25 (Item 25 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01211233 SUPPLIER NUMBER: 04739025 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Client List. (Software Review) (mailing-list managers) (evaluation)**  
Brown, Bruce  
PC Magazine, v6, n6, p205(2)  
March 31, 1987  
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 15602 LINE COUNT: 01175

... cannot customize or change the entry screen at all. It's primitive,

.but it does work. Client List is limited to 250 records. Two coding **fields** are available, **category** and classification. You can **sort** by either of these **fields** , but not both. Client List sorts records by last name automatically, and you can specify ZIP code sorting when printing labels.

That's about it...it's too constraining. Everything about List n Label is already decided for you. Your 250 names must fit into predetermined fields, including one **category field** that lets you enter two character codes. List n Label will **sort** by last name or by the **category field** , but if you want to print your labels in ZIP code order, forget it.

If names or addresses don't fit into the field sizes...former as the key field, while a business entry has a distinct key field and a single name field. Otherwise, they both share three address **fields** , one phone number **field** , an eight-character **category field** (that can be used to select on), a re- **sort field** (that can contain information that you may alternatively wish to sort on, such as a ZIP code), and four comment **fields** . The notecard format contains key, **category** , and re- **sort fields** , along with seven comment lines. It is mainly useful as a user-created help file--for example, a listing of user codes that will be ...

4/3,K/26 (Item 26 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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01103726 SUPPLIER NUMBER: 00589767 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Project Management With The PC.**

Edwards, K.; Derfler, F.J.Jr; Burns, D.; Taylor, J.; Venit, S.; Brown, L.K. ; Poor, A.; Hart, G.A.; Aarons, D.

PC Magazine, v3, n24, p193-277

Dec. 11, 1984

DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 12143 LINE COUNT: 00925

... include a network diagram, a Gant chart, activity lists, resource reports, and cost reports. It can produce several kinds of reports in each of these **categories** . You can **sort** and summarize information using a variety of different **fields** , such as early start, slack time, activity code, successor, or cost code, depending on the type of report you

4/3,K/27 (Item 1 from file: 621)

DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

(c) 2003 The Gale Group. All rts. reserv.

01317534 Supplier Number: 45914917 (USE FORMAT 7 FOR FULLTEXT)

**Seiko Instruments USA Inc. unveils Smart Business Card Reader.**

Business Wire, p11060317

Nov 6, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 371

... Other features allow users to add notes to the cards and search for contacts based on those notes. Cards can be saved in user-defined **categories** , and **sorted** by a **field** or multiple **fields** . Contact lists can be printed in address book, phone book or label formats.

The Smart Business Card Reader requires an IBM-compatible PC with a...

4/3,K/28 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

02859796 Supplier Number: 45800595 (USE FORMAT 7 FOR FULLTEXT)

**PINNACLE: Pinnacle announces FlashClip interface to Tektronix profile**

· **PDR-100 professional disk recorder**

M2 Presswire, pN/A

Sept 20, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 762

... processing, a linear alpha key stored with each still image, and Pinnacle's advanced library management system. This library database system allows images to be sorted by number, name, date, category or field. The system's fast retrieval capabilities offer users the ability to store large numbers of images and retrieve the exact stills they need at a...

**4/3,K/29 (Item 1 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

07228620 Supplier Number: 61531051 (USE FORMAT 7 FOR FULLTEXT)

**Notes Reports In A Snap. (Software Review) (Evaluation)**

Schindler, Esther

Smart Reseller, v3, n10, p62

March 13, 2000

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Magazine/Journal; Trade

Word Count: 522

... like a prettified Notes view--and then you can go to work on it with a chain saw. You can reorder or eliminate columns, reorganize categories, use calculated fields, and summarize, sort, count or perform basic math on columns. The program includes several style sheets and plenty of options for changing fonts, alignment, colors, and so on...

**4/3,K/30 (Item 2 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

(c) 2003 The Gale Group. All rts. reserv.

06056780 Supplier Number: 54296441 (USE FORMAT 7 FOR FULLTEXT)

**2,001 Tips: Applications -- Got a hectic schedule? Juggling multiple projects? These tips will help you keep it all under control. (Product Support) (Tutorial)**

Windows Magazine, p83(1)

Nov 15, 1998

Language: English Record Type: Fulltext

Article Type: Tutorial

Document Type: Magazine/Journal; General Trade

Word Count: 17932

... OK.

Change Your Sort Order

To change the sort order of your contacts, go to the Address section, choose View and one of the following Sort fields: By Last Name, By Company, By Zip or By Category.

Color-Code Your Pages

Color-code Organizer's Notepad pages for easy identification. Just create or edit a Notepad page, choose Styles/Color and make...

**4/3,K/31 (Item 1 from file: 160)**

DIALOG(R)File 160:Gale Group PROMT(R)

(c) 1999 The Gale Group. All rts. reserv.

01962611

**Principles emerging for deliberate release**

Bio/Technology July, 1988 p. 753-755

ISSN: 0733-222X

... of Technology Assessment has concluded that small-scale field tests involving GEMS are unlikely to cause adverse environmental effects. It should soon be possible to **sort** applications for **field**-tests into **categories** requiring low, medium or high levels of scrutiny, according to LV Giddings of OTA. According to B Davis of Harvard Medical School, GEMS are not...

**4/3,K/32 (Item 1 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

12513685 SUPPLIER NUMBER: 64715525 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Knowledge Exchange at GlaxoWellcome.**  
DUFFY, JAN  
Information Management Journal, 34, 3, 64  
July, 2000  
ISSN: 0265-5306 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 2788 LINE COUNT: 00250

... Choose from pick list, none, or all.)  
The on-screen language maps directly to the language used during the simulation game. Knowledge can be collected, **sorted**, and viewed by many different **fields** and **categories**. The system is designed to support the needs of multiple interest groups and to provide quick response; ideally, any question should be answered within 24...

**4/3,K/33 (Item 2 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

09396909 SUPPLIER NUMBER: 19221712 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The Wall Street Journal meets the Web; WSJIE has managed to keep traditional WSJ values while adding Web zing. (The Wall Street Journal Interactive Edition) (Column)**  
O'Leary, Mick  
Information Today, v14, n3, p22(2)  
March, 1997  
DOCUMENT TYPE: Column ISSN: 8755-6286 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 2002 LINE COUNT: 00160

... categories. Relevance ranking is employed to impart Precision to searches that otherwise would return an unacceptable ratio of irrelevant hits.

The advanced search level adds **field** searching, date limiting, **sort** and display options, and additional source **categories**. It lacks several expert-level features found on the News/Retrieval version, including proximity operators, searching minor fields, searching publications individually, and additional sorting and...

**4/3,K/34 (Item 3 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

08729873 SUPPLIER NUMBER: 18353653 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Where in he world is The New York Times: a searcher watches and hopes. (online versions) (includes related articles) (Cover Story)**  
Bjorner, Susanne  
Database, v19, n3, p28(12)  
June-July, 1996  
DOCUMENT TYPE: Cover Story ISSN: 0162-4105 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 8299 LINE COUNT: 00643

... ll probably search DIALOG PAPERS, which includes File 471 in the ONESEARCH. (File 471 and 472 appear in the PAPERS, PAPERSNE, PAPERSNY, and PAPERSMJ DIALINDEX **categories**.) KRI has established certain length LIMITs, **SORT** options, search **field** suffixes (TI, LP), and output formats that make it easy to search many papers in a group. (Formats for all these papers have some similarities...

**4/3,K/35 (Item 4 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

08302567 SUPPLIER NUMBER: 17603912 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**A gallery of gadgets: spanning the range from the provocative to the practical. (Buyers Guide)**

Comarow, Avery; Flynn, Mary Kathleen; Manhard, Richard; Peart, Patricia; Wiener, Leonard; Wu, Amy

U.S. News & World Report, v119, n20, p115(4)

Nov 20, 1995

DOCUMENT TYPE: Buyers Guide ISSN: 0041-5537 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2413 LINE COUNT: 00186

... the one for U.S. News. For artier treatments, you'll have to type in the words on the frustratingly tiny keys.

Information is automatically **sorted** into **fields** such as company name and address; birthdays and other **categories** can be added. You can also store key travel information about airlines, hotels and car services, along with appointments. And there's a note-taking...

**4/3,K/36 (Item 5 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

07715401 SUPPLIER NUMBER: 16000837 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Corkboard 2.0. (Macintosh software for entrepreneurs) (Evaluation)**

James, Dennis

Success, v42, n1, p55(1)

Feb, 1995

DOCUMENT TYPE: Evaluation ISSN: 0745-2489 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 326 LINE COUNT: 00024

... the similarity ends. Corkboard's simple exterior hides a powerful word processor and outliner, complete with spell checker, structured or random viewing, find and replace, **sort** and select, and **category fields**

Sam Anderson, supervisor of desktop systems at a Southern California HMO, uses Corkboard 2.0 to maintain a visual reference for the 1,600 Macs  
...

**4/3,K/37 (Item 6 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

03502479 SUPPLIER NUMBER: 06202022 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Prodex feels familiar, but new. (Software Review) (Product reviews - PC phone management system) (evaluation)**

Bermant, Charles

Personal Computing, v12, n2, p224(1)

Feb, 1988

DOCUMENT TYPE: evaluation ISSN: 0192-5490 LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 854 LINE COUNT: 00065

... comments. Like most phone dialers, a number can be located by

typing just the first few letters of the needed name (Prodex searches the default **category** ).

The **Sort** command from the main menu alphabetizes any of the **fields** . Depending on how you key in data when booting up, Prodex will automatically sort out specific categories. For instance, if client names are keyed in...

**4/3,K/38 (Item 1 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01559625 02-10614  
**DJI rounds out Dow Jones Web migration**  
O Leary, Mick  
Information Today v15n1 PP: 16-17 Jan 1998  
ISSN: 8755-6286 JRNL CODE: IFT  
WORD COUNT: 2040

...TEXT: of which help focus the most casual search query. The advanced level-for experienced end users and expert searchers-has pull-down menus for selected **field** searching, date ranging, **sorting** by relevance or date, and additional publication **categories** . (See Figure 2.) Expert searchers will also be pleased to know that the entire command set will be supported. Charges are \$2.95 for full...

**4/3,K/39 (Item 2 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01508669 01-59657  
**Institutionalization and structuration: Studying the links between action and institution**  
Anonymous  
Organization Studies v18n1 PP: 93-117 1997  
ISSN: 0170-8406 JRNL CODE: ORS  
WORD COUNT: 8666

...TEXT: of observation, (2) identifying behavioural patterns (scripts) within categories, (3) identifying commonalities across scripts, and (4) comparing scripts over time.

#### Grouping Data

A system of **categories** for collecting and **sorting** data greatly facilitates identifying scripts. Although the types of **categories** used depend on the research project, experienced **field** researchers typically employ several broad categorization schemes for collecting observational data (see Lofland 1976). One such scheme targets types of events or activities that have...

**4/3,K/40 (Item 3 from file: 15)**  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01047808 96-97201  
**Booth directory for Nexpo 95 Who's showing what where**  
Anonymous  
Editor & Publisher v128n21 PP: 8N-9N+ May 27, 1995  
ISSN: 0013-094X JRNL CODE: EDP  
WORD COUNT: 23968

...TEXT: and control.

As electronic copy is received from the input sources, NewsCentral uses automated categorization methods to manage the copy flow. Copy can then be

sorted according to newspaper-defined categories , including header fields , arrival statistics and full text. Once the copy has been categorized, it is automatically sent to user-defined destinations, such as LAN-based directories, front...

4/3,K/41 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01045973 96-95366  
**How fun flies at Southwest Airlines**  
Sunoo, Brenda Paik  
Personnel Journal v74n6 PP: 62-73 Jun 1995  
ISSN: 0031-5745 JRNL CODE: PEJ  
WORD COUNT: 5069

...TEXT: t fun," says Phelps. Now, data-entry clerks key in basic information, such as name, address, phone and education. The computer program allows recruiters to sort by any field , such as job category or city. If a recruiter is searching for a ramp agent in Chicago, for example, he or she can specify that geographically specific need. "You...

4/3,K/42 (Item 5 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00660170 93-09391  
**Commence PIM improves on Current with better usability**  
Marshall, Patrick  
InfoWorld v15n2 PP: 71-75 Jan 11, 1993  
ISSN: 0199-6649 JRNL CODE: IFW  
WORD COUNT: 2766

...TEXT: individual users. In addition to the sheer number of available fields that it offers, Commence also enables you to attach bit-mapped graphic images to fields .

You can see each category in a variety of views and sort data in views by up to four criteria at once. You can also "filter," or search, any category by up to four field values, setting...

4/3,K/43 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2003 ProQuest Info&Learning. All rts. reserv.

00602816 92-17919  
**Bank Ethics: An Exploratory Study of Ethical Behaviors and Perceptions in Small, Local Banks**  
Mitchell, William J.; Lewis, Phillip V.; Reinsch, N. L., Jr.  
Journal of Business Ethics v11n3 PP: 197-205 Mar 1992  
ISSN: 0167-4544 JRNL CODE: JBE  
WORD COUNT: 3737

...TEXT: two authors until they achieved a mutually acceptable (i.e., comprehensive and exhaustive) list of behaviors. A total of 262 behaviors were found and were sorted into seventeen categories .

#### COLLECTION OF FIELD DATA

The results of the first stage were used as a foundation for the second stage. In the second stage employees in four small, local...

4/3,K/44 (Item 1 from file: 810)  
DIALOG(R)File 810:Business Wire



~ (c) 1999 Business Wire . All rts. reserv.

0750702 BW0079

**SEIKO INSTRUMENTS: Seiko Instruments Introduces Free Enhanced Software Upgrade For Smart Business Card Reader**

September 26, 1997

Byline: Business Editors and High-Tech Writers

...features allow the user to add notes to the cards and search for contacts based on those notes. Cards can be saved in user-defined **categories** , and **sorted** by a **field** or multiple **fields**

A "Smart Zoom" feature highlights areas of the card to be edited.

Contact lists can be produced in either address book, phone book or label...

4/3,K/45 (Item 2 from file: 810)  
DIALOG(R)File 810:Business Wire  
(c) 1999 Business Wire . All rts. reserv.

0706694 BW0005

**SEIKO INSTR USA INC: \$149 summer price offered for Seiko Instruments' Smart Business Card Reader**

May 27, 1997

Byline: Business Editors

...Other features allow users to add notes to the cards and search for contacts based on those notes. Cards can be saved in user-defined **categories** , and **sorted** by a **field** or multiple **fields**

They also can "drag and drop" fields from a card image to a database, and use a Smart Zoom feature to highlight areas to be...

## Contents

-----

1. Overview
2. Content of the Zip file
3. System Requirements
4. Installing/Upgrading
5. Uninstalling
6. Using the Program
  - 6.1 The new look of the address list
  - 6.2 Changing the display and sort order of the address list
  - 6.3 The Quick Bar
  - 6.4 The Record duplication feature
  - 6.5 The contact management feature
  - 6.6 Auto Resort after HotSync
  - 6.7 Search & Replace engine
7. Future Enhancements
8. Bug Reporting
9. Disclaimer
10. Registration
11. Versions

+ NEW + NEW + NEW + NEW + NEW + + NEW + NEW + NEW + NEW + NEW + NEW +  
+  
+ Different sort schemes and view fields for different categories !! +  
+ (read par. 6.2 for details) +  
+  
+ NEW + NEW + NEW + NEW + NEW + + NEW + NEW + NEW + NEW + NEW + NEW +

## 1. Overview

-----

5 stars rated by ZDNET ! and 5 cows rated by TUCOWS! A supercharged Address Book enhancement featuring a robust sorting mechanism, a must have Search & Replace engine, new display sorting capabilities, and new record duplication and contact management features giving the user unlimited possibilities with the built in address book.

The application works with the original database of the built in Address Book. The user is allowed to choose any field to be the main sorting & display field (first name, home phone, fax, address, city.... and, of course, company or last name).

The user may choose any field to be the second sort & display field - not only last name or first name.

The user has the choice of putting any field in the phone display field - not only phone fields.

A Quick Bar allows tapping on the first letter of the main sorting field - this will highlight the first record with this letter immediately (Graffiti - is an option now!).

Record duplication is now supported.

Contact management is supported.

A powerful search & replace engine is available for quick searches and automating tedious editing job.

## 2. Content of the Zip file

-----  
The following files are included:

- AddressPro.prc (The program)
- Readme.txt (This file)

## 3. System Requirements

- 
- PalmOS v3.0 or above.  
(Which means Palm III, Palm IIIx, Palm V or a PalmPilot with the 2MB upgrade).

## 4. Installing/Upgrading

-----  
1st OF ALL - REMOVE EARLIER VERSIONS !!!!!

To install this program, use your Palm device install tool and Hotsync to load the AddressPro.prc file (after you unzipped it from the Zip file) into the Palm device.

## 5. Uninstalling

-----  
To uninstall, simply, delete the AddressPro application from your device.  
(Most Probably when you move back to using the original Address Book you will get an unsorted address list - in order to sort it again go to the Address Book menu , choose Options, than choose Preferences and tap the "Last name, First name" button if it is not highlighted ,if it is highlighted tap the "Company, Last name" button and than tap the "OK" button - this will resort the address list).

## 6. Using the Program

-----  
\*\* This section will emphasize only the enhancements, the rest of the operations are either self explanatory or similar in nature to the old Address Book.

### 6.1 The new look of the address list

- 
- The address list now has a Quick Bar in the bottom of the screen made of the English alphabet.
  - The address list has a titles row directly above the list.
  - The Sorting fields title is a popup list which lets you choose between pre-selected sorting schemes or create a new one.
  - The Phone field title is a popup list which lets you choose the desired field to be displayed instead of the phone number.
  - A "find" button is added right next to the "new" button.

### More new features

- 
- Duplicate button and menu items in the record view which allow you to duplicate an existing record or parts of it.
  - Contact management menu item in the record view which lets you add a date to field custom4.

- Search & Replace engine (see details below).

## 6.2 Changing the display and sort order of the address list

---

Tap the titles sorting popup trigger (directly above the list of addresses) to get a list of pre-selected sorting schemes, choose one of the sorting schemes to apply it to the addresses database. Choose "Other..." to get to the Sorting and preferences panel (you can also get to this panel by tapping the Options menu and choosing "Preferences").

In this panel there are 2 drop down lists: the upper one is for the main sort field, and the next one is for the secondary sort field.

The entries in the drop down lists are identical in the 2 lists and include: Last name, First name, Company, Phone1, Phone2, Phone3, Phone4, Phone5, address, city, state, zip code, country, title, custom1, custom2, custom3, custom4. You may choose any of the entries in any of the fields.

The entry you choose for the main sort field is used to sort the list, for example if you choose "city" than in the address list all the records appear sorted with the city name first.

The entry you choose for the secondary sort field is used to sort the list if the records has the same data in the main sort field, for example if you choose "First name" and 2 records have the same "last name" in the main sort field (e.g. "Smith") than in the address list the 2 records appear sorted according to the secondary sort field - "first name" ( e.g. "John", "Sam").

Tapping the "Done" button causes the list to be resorted and redisplayed according to the fields you chose.

While in the list view you can change the displayed phone number by selecting a field from the popup list in the titles row. The entry you choose for the phone display field is used to display the field you want instead of phone in the list, for example if you choose "title" than in the address list all the records appear with the titles instead of phone numbers.

If you checked in the preferences panel the "Fill phone field" checkbox than - If for a certain record the phone field is empty than it will show the phone field you chose in "show in list" preference for the record. If this one does not exist than the next available phone number will be shown.

You may select "None" to be displayed, than no phone number is displayed and you get to see more details on the 1st 2 displayed fields.

You may select "ShowInList" to display the phones exactly as in the address book according to your choices of what phone number to show in the list. If there is no phone number chosen - the next available one will be displayed.

New !! You may now select different sorting schemes and different phone view fields for different categories , and than by changing categories you get different sorting and viewing possibilities.

For example I chose the "last,first" sorting scheme and "phone1" view field for my "personal" category and the "company,last" scheme with no phone view field for my "business" category.

In order to enable this feature goto the preferences panel and check the "Sort for each category" checkbox.

!! Be aware that if you use this feature, each time you change a category the database is resorted - for big databases this operation may take some time ! - changing only the phone view field will not cause a resort!

### 6.3 The Quick Bar

---

The Quick Bar allows you a faster access to the records. By tapping a letter on the quick bar the first record with the same letter in the main sort field is highlighted.

If you want a more accurate access to a record you can add letters to the "Find field" (located now in the upper left corner) using Graffiti strokes or the built in keyboard.

### 6.4 The Record duplication feature

---

In the Record view a "duplicate" button is added. Tapping this button causes a new record to be opened in the Edit view with all the details of the previously selected record. You may now edit the new record and save it at your will. In the Record menu 3 menu items are added which allow you whole or partial duplication:

- Duplicate Whole (same as the button)
- Duplicate w/o name and title (allows you to create a new entry for a fellow worker of an existing contact)
- Duplicate only company info (same company but not a fellow...)

### 6.5 The contact management feature

---

A contact management feature appears In the Record menu of the record view as the menu item: "Add last contact date". Tapping this menu item will popup a date selection window which will let you specify a date. The date you specify is entered automatically into field custom4 (which you can rename for example to: "Last contact date:").

If you use this feature you can sort your list according to contact dates...(close enough - the sorting is according to ASCII characters and not numeric digits so some glitches may appear: 7/10/99 will be before 7/2/99).

### 6.6 Auto Resort after HotSync

---

Due to a built in feature of the old address book that auto resorts the address database after each Hotsync and the facts that your sorting scheme probably differs from the one the old address book uses and one cannot delete the old address book from the device, the address database appears to be messed up after each hotsync under addressPro. In order to resort the database automatically after a hotsync check in the preferences panel the check box marked "Resort after HotSync". You may not check it if you use the same sorting scheme as the old address book ( e.g.: Company, Last name) and your database does not get messed up due to this fact.

If you have a large database an auto resort may come in the wrong time. you can uncheck the "auto resort" checkbox and manually resort the database at your own leisure by tapping the "az" icon to the left of the sorting scheme popup list trigger.

### 6.7 Search & Replace engine

---

Tapping the "Find" button in the List view brings up the "Search & Replace" form.

Enter the string to search in the search field, choose which fields to check and hit the "Go" button.

The search is being done only on the current category, so in order to search the whole database, please choose the category "All".

The search result is shown as a list in a "Search" form. In order to get back to normal mode hit the "Done" button. In order to change search string or fields hit the "More" button.

#### Replacing text / changing category / deleting

---

For each record found to comply with the search string you can do the following:

- Replace the searched string with a new string. Enter the new string in the replace field and check the checkbox.
- Change the category of the record. Choose the new category from the categories list and check the checkbox.
- Delete the record. Check the "delete record" checkbox.

!!!!!!!!!!!! CAUTION !!!!!!!!!!!!!

I DO NOT RECOMMEND REMOVING THE CHECK MARK FROM THE VERIFY ACTION CHECKBOX. LETTING THE APPLICATION DO THE REPLACING/DELETING JOB AUTOMATICALLY FOR YOU WITHOUT SUPERVISION MAY CAUSE UNWANTED RESULTS. TAKE THE CHECKMARK OFF ONLY IF YOU CAN SPECIFY AN EXACT SEARCH STRING THAT WILL "CATCH" ONLY THE RECORDS YOU WANT AND ONLY IF YOU EXPECT A LOT OF RECORDS TO BE PROCESSED.

BE WARNED - AND HOTSYNCR ALWAYS BEFORE YOU DO ANY KIND OF WORK OF THIS SORT.

!!!!!!!!!!!! CAUTION !!!!!!!!!!!!!

#### Remarks

---

- The search engine is case insensitive !
- Search an empty string and you will get all the records within the specified field - which are empty.

#### Some search & replace examples

---

To find all the records in the database containing my last name: ("Zinger") - I choose the "Personal" category , tap the "find" button, than I enter "zinger" in the search field and choose the last name field to be searched (saves time...) - than I hit the GO! button...

To replace all the occurances of "zinger" with "singer" in all the records in the database :- I choose the "All" category , tap the "find" button, than I enter "zinger" in the search field and choose all fields to be searched , I enter "singer" in the replace field and check the checkbox of this field - than I hit the GO! button...

To delete all records containing the string "Jacob" in their first name field in the "Personal" category: - I choose the "Personal" category , tap the "find" button, than I enter "jacob" in the search field and choose the first name field to be searched , check the delete record checkbox - than I hit the GO! button...

Note !!! - I never uncheck the "Verify each action" checkbox !

## 7. Future Enhancements

-----  
- Anything you have in mind ! - And I think is worth the effort (An original enhancement suggestion implemented by me will entitle the responsible party the application and future upgrades - FREE for life !)

## 8. Bug Reporting

-----  
If you find a bug or want to suggest an enhancement you can contact me at:

sjzinger@geocities.com

## 9. Disclaimer

-----  
This product is provided without any warranty and the user accepts full responsibility for any damages, consequential or otherwise, resulting from its use.

This archive is freely redistributable, provided it is made available only in its complete, unmodified form with no additional files.

## 10. Registration

-----  
This program is a shareware. The unregistered version's is fully functional except the replace feature which is disabled and a registration reminder you see every time you start using the application.

If you like the program and wish to get the full version, please register with the author for the nominal fee of 19.95\$.

Registering will provide you the following:

- the full registered version which is not limited in any way.
- Free upgrades of the software.

Register the program at Palmgear HQ :

- online via: [www.palmgear.com](http://www.palmgear.com) - Products shopping mall
- via phone: 817.640.6558
- via fax: 817.640.6614

The author's Web site can be found at:

<http://www.geocities.com/SiliconValley/Campus/7631/index.html>

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#### Remarks / Known bugs:

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- Sort speed is according to the number of contacts (more = slower) and how  
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- Shareware version users ! - evaluation period limitations gone!
- date sorting is not perfect(custom4 field).
- If you choose to use a different sort scheme for different categories please  
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#### Tips

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- If sorting each category is too slow for you, leave the checkbox checked , make  
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## Contents

- 
- 1. Overview
- 2. Content of the Zip file
- 3. System Requirements
- 4. Installing/Upgrading
- 5. Uninstalling
- 6. Using the Program
  - 6.1 The new look of the address list
  - 6.2 Changing the display and sort order of the address list
  - 6.3 The Quick Bar
  - 6.4 The Record duplication feature
  - 6.5 The contact management feature
  - 6.6 Auto Resort after HotSync
  - 6.7 Search & Replace engine
- 7. Future Enhancements
- 8. Bug Reporting
- 9. Disclaimer
- 10. Registration
- 11. Versions

+ NEW + NEW + NEW + NEW + NEW + + NEW + NEW + NEW + NEW + NEW + NEW +  
+  
+ Different sort schemes and view fields for different categories !! +  
+ (read par. 6.2 for details) +  
+  
+ NEW + NEW + NEW + NEW + NEW + + NEW + NEW + NEW + NEW + NEW + NEW +

## 1. Overview

-----  
5 stars rated by ZDNET ! and 5 cows rated by TUCOWS! A supercharged Address Book enhancement featuring a robust sorting mechanism, a must have Search & Replace engine, new display sorting capabilities, and new record duplication and contact management features giving the user unlimited possibilities with the built in address book.

The application works with the original database of the built in Address Book. The user is allowed to choose any field to be the main sorting & display field (first name, home phone, fax, address, city.... and, of course, company or last name).

The user may choose any field to be the second sort & display field - not only last name or first name.

The user has the choice of putting any field in the phone display field - not only phone fields.

A Quick Bar allows tapping on the first letter of the main sorting field - this will highlight the first record with this letter immediately (Graffiti - is an option now!).

Record duplication is now supported.

Contact management is supported.

A powerful search & replace engine is available for quick searches and automating tedious editing job.

## 2. Content of the Zip file

-----  
The following files are included:

- AddressPro.prc (The program)
- Readme.txt (This file)

## 3. System Requirements

- - PalmOs v3.0 or above.  
(Which means Palm III, Palm IIIx, Palm V or a PalmPilot with the 2MB upgrade).

## 4. Installing/Upgrading

-----  
1st OF ALL - REMOVE EARLIER VERSIONS !!!!!  
To install this program, use your Palm device install tool and Hotsync to load the AddressPro.prc file (after you unzipped it from the Zip file) into the Palm device.

## 5. Uninstalling

-----  
To uninstall, simply, delete the AddressPro application from your device.  
(Most Probably when you move back to using the original Address Book you will get an unsorted address list - in order to sort it again go to the Address Book menu , choose Options, than choose Preferences and tap the "Last name, First name" button if it is not highlighted ,if it is highlighted tap the "Company, Last name" button and than tap the "OK" button - this will resort the address list).

## 6. Using the Program

-----  
\*\* This section will emphasize only the enhancements, the rest of the operations are either self explanatory or similar in nature to the old Address Book.

### 6.1 The new look of the address list

- - The address list now has a Quick Bar in the bottom of the screen made of the English alphabet.  
- The address list has a titles row directly above the list.  
- The Sorting fields title is a popup list which lets you choose between pre-selected sorting schemes or create a new one.  
- The Phone field title is a popup list which lets you choose the desired field to be displayed instead of the phone number.  
- A "find" button is added right next to the "new" button.

### More new features

- - Duplicate button and menu items in the record view which allow you to duplicate an existing record or parts of it.  
- Contact management menu item in the record view which lets you add a date to field custom4.

- Search & Replace engine (see details below).

## 6.2 Changing the display and sort order of the address list

-----  
Tap the titles sorting popup trigger (directly above the list of addresses) to get a list of pre-selected sorting schemes, choose one of the sorting schemes to apply it to the addresses database. Choose "Other..." to get to the Sorting and preferences panel (you can also get to this panel by tapping the Options menu and choosing "Preferences").

In this panel there are 2 drop down lists: the upper one is for the main sort field, and the next one is for the secondary sort field.

The entries in the drop down lists are identical in the 2 lists and include: Last name, First name, Company, Phone1, Phone2, Phone3, Phone4, Phone5, address, city, state, zip code, country, title, custom1, custom2, custom3, custom4. You may choose any of the entries in any of the fields.

The entry you choose for the main sort field is used to sort the list, for example if you choose "city" than in the address list all the records appear sorted with the city name first.

The entry you choose for the secondary sort field is used to sort the list if the records has the same data in the main sort field, for example if you choose "First name" and 2 records have the same "last name" in the main sort field (e.g. "Smith") than in the address list the 2 records appear sorted according to the secondary sort field - "first name" ( e.g. "John", "Sam").

Tapping the "Done" button causes the list to be resorted and redisplayed according to the fields you chose.

While in the list view you can change the displayed phone number by selecting a field from the popup list in the titles row. The entry you choose for the phone display field is used to display the field you want instead of phone in the list, for example if you choose "title" than in the address list all the records appear with the titles instead of phone numbers.

If you checked in the preferences panel the "Fill phone field" checkbox than - If for a certain record the phone field is empty than it will show the phone field you chose in "show in list" preference for the record. If this one does not exist than the next available phone number will be shown.

You may select "None" to be displayed, than no phone number is displayed and you get to see more details on the 1st 2 displayed fields.

You may select "ShowInList" to display the phones exactly as in the address book according to your choices of what phone number to show in the list. If there is no phone number chosen - the next available one will be displayed.

New !! You may now select different sorting schemes and different phone view fields for different categories , and than by changing categories you get different sorting and viewing possibilities.

For example I chose the "last,first" sorting scheme and "phone1" view field for my "personal" category and the "company,last" scheme with no phone view field for my "business" category.

In order to enable this feature goto the preferences panel and check the "Sort for each category" checkbox.

!! Be aware that if you use this feature, each time you change a category the database is resorted - for big databases this operation may take some time ! - changing only the phone view field will not cause a resort!

### 6.3 The Quick Bar

-----

The Quick Bar allows you a faster access to the records. By tapping a letter on the quick bar the first record with the same letter in the main sort field is highlighted.

If you want a more accurate access to a record you can add letters to the "Find field" (located now in the upper left corner) using Graffiti strokes or the built in keyboard.

### 6.4 The Record duplication feature

-----

In the Record view a "duplicate" button is added. Tapping this button causes a new record to be opened in the Edit view with all the details of the previously selected record. You may now edit the new record and save it at your will. In the Record menu 3 menu items are added which allow you whole or partial duplication:

- Duplicate Whole (same as the button)
- Duplicate w/o name and title (allows you to create a new entry for a fellow worker of an existing contact)
- Duplicate only company info (same company but not a fellow...)

### 6.5 The contact management feature

-----

A contact management feature appears In the Record menu of the record view as the menu item: "Add last contact date". Tapping this menu item will popup a date selection window which will let you specify a date. The date you specify is entered automatically into field custom4 (which you can rename for example to: "Last contact date:").

If you use this feature you can sort your list according to contact dates...(close enough - the sorting is according to ASCII characters and not numeric digits so some glitches may appear: 7/10/99 will be before 7/2/99).

### 6.6 Auto Resort after HotSync

-----

Due to a built in feature of the old address book that auto resorts the address database after each Hotsync and the facts that your sorting scheme probably differs from the one the old address book uses and one cannot delete the old address book from the device, the address database appears to be messed up after each hotsync under addressPro. In order to resort the database automatically after a hotsync check in the preferences panel the check box marked "Resort after HotSync". You may not check it if you use the same sorting scheme as the old address book ( e.g.: Company, Last name) and your database does not get messed up due to this fact.

If you have a large database an auto resort may come in the wrong time. you can uncheck the "auto resort" checkbox and manually resort the database at your own leisure by tapping the "az" icon to the left of the sorting scheme popup list trigger.

### 6.7 Search & Replace engine

-----

Tapping the "Find" button in the List view brings up the "Search & Replace" form.

Enter the string to search in the search field, choose which fields to check and hit the "Go" button.

The search is being done only on the current category, so in order to search the whole database, please choose the category "All".

The search result is shown as a list in a "Search" form. In order to get back to normal mode hit the "Done" button. In order to change search string or fields hit the "More" button.

#### Replacing text / changing category / deleting

-----

For each record found to comply with the search string you can do the following:

- Replace the searched string with a new string. Enter the new string in the replace field and check the checkbox.
- Change the category of the record. Choose the new category from the categories list and check the checkbox.
- Delete the record. Check the "delete record" checkbox.

!!!!!!!!!!!! CAUTION !!!!!!!!!!!!!!!

I DO NOT RECOMMEND REMOVING THE CHECK MARK FROM THE VERIFY ACTION CHECKBOX. LETTING THE APPLICATION DO THE REPLACING/DELETING JOB AUTOMATICALLY FOR YOU WITHOUT SUPERVISION MAY CAUSE UNWANTED RESULTS. TAKE THE CHECKMARK OFF ONLY IF YOU CAN SPECIFY AN EXACT SEARCH STRING THAT WILL "CATCH" ONLY THE RECORDS YOU WANT AND ONLY IF YOU EXPECT A LOT OF RECORDS TO BE PROCESSED.

BE WARNED - AND HOTSYNCR ALWAYS BEFORE YOU DO ANY KIND OF WORK OF THIS SORT.

!!!!!!!!!!!! CAUTION !!!!!!!!!!!!!!!

#### Remarks

-----

- The search engine is case insensitive !
- Search an empty string and you will get all the records within the specified field - which are empty.

#### Some search & replace examples

-----

To find all the records in the database containing my last name: ("Zinger") - I choose the "Personal" category , tap the "find" button, than I enter "zinger" in the search field and choose the last name field to be searched (saves time...) - than I hit the GO! button...

To replace all the occurances of "zinger" with "singer" in all the records in the database :- I choose the "All" category , tap the "find" button, than I enter "zinger" in the search field and choose all fields to be searched , I enter "singer" in the replace field and check the checkbox of this field - than I hit the GO! button...

To delete all records containing the string "Jacob" in their first name field in the "Personal" category: - I choose the "Personal" category , tap the "find" button, than I enter "jacob" in the search field and choose the first name field to be searched , check the delete record checkbox - than I hit the GO! button...

Note !!! - I never uncheck the "Verify each action" checkbox !

## 7. Future Enhancements

-----  
- Anything you have in mind ! - And I think is worth the effort (An original enhancement suggestion implemented by me will entitle the responsible party the application and future upgrades - FREE for life !)

## 8. Bug Reporting

-----  
If you find a bug or want to suggest an enhancement you can contact me at:

sjzinger@geocities.com

## 9. Disclaimer

-----  
This product is provided without any warranty and the user accepts full responsibility for any damages, consequential or otherwise, resulting from its use.

This archive is freely redistributable, provided it is made available only in its complete, unmodified form with no additional files.

## 10. Registration

-----  
This program is a shareware. The unregistered version's is fully functional except the replace feature which is disabled and a registration reminder you see every time you start using the application.

If you like the program and wish to get the full version, please register with the author for the nominal fee of 19.95\$.

Registering will provide you the following:

- the full registered version which is not limited in any way.
- Free upgrades of the software.

Register the program at Palmgear HQ :

- online via: [www.palmgear.com](http://www.palmgear.com) - Products shopping mall
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